Tamkang University Academic Year 102, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO MATHEMATICAL ECONOMICS	Instructor	KAU CHIN-MEI
Course Class	TLFXB1A DEPARTMENT OF INTERNATIONAL BUSINESS, 1A	Details	RequiredOne Semester3 Credits
	Departmental Aim of Educ	ation	
studen II. By inte physica curricu and so III. To ove	ill the university motto of "Simplicity, Firmness, Perseverance, and ts. grating the "Five Disciplines" of education, the qualities of conceal education, teamwork, and beauty into the professional, core, lum, the department helps to produce well-rounded students solving problems. In produce the trend and foresee the development of global economy of produce the graduates with expertise in the fields of Internation	luct, intelligend and extracurrickilled in idention, the department	ce, cular fying ent
A. Breeding	Depart mental core compet		
Business			
C. Producii Global E	ng of Globalization, Information-Oriented and Future-Oriented ng graduates with capability of foreseeing and analyzing the de conomy. g professionals with expertise in Marketing and Financial Manag	velopment of	
Course Introduction	In this course students will learn what is the limit of a functio what is the derivative of a function, what is the integral of a fapply these concepts to solve the economic problems.	•	•

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation, P6-Origination

(iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

			Relevance	
N	Teaching Objectives	Objective Levels	Departmental core competences	
1	Derivatives and integral of functions	C2	ABCD	

Teaching Objectives, Teaching Methods and Assessment

	readming Objectives, readming methods and respective			
No.	Teaching Objectives	Teaching Methods	Assessment	
1	Derivatives and integral of functions	Lecture, Problem solving	Written test, Practicum	

	Essential	Qualities of TKU Students	Descript	ion
		pective	Helping students develop a broader perspective from which to understand international affairs and global development.	
\Diamond	Information li	teracy	Becoming adept at using information technology and learning the proper way to process information.	
♦ A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.	
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
•	Independent :	thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
◆ A cheerful attitude and healthy lifestyle		itude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
◆ A spirit of teamwork and dedication		mwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.	
◆ A sense of aesthetic appreciation		sthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.	
			Course Schedule	
Week	Date	9	Subject/Topics	Note
1	103/02/17 ~ 103/02/23	Functions and Graphs		
2	103/02/24 ~ 103/03/02	Limits		
3	103/03/03 ~ 103/03/09	Derivatives		
4	103/03/10 ~ 103/03/16	Derivatives		
5	103/03/17 ~ 103/03/23	Optimization of a function		
6	103/03/24 ~ 103/03/30	Optimizationof a function		
7	103/03/31 ~ 103/04/06	School special week		
8	103/04/07 ~ 103/04/13	Exponential functions		
9	103/04/14 ~ 103/04/20	Logarithmic functions		
10	103/04/21 ~ 103/04/27	Midterm Exam Week		
	103/04/28 ~ 103/05/04	Functions with two variables	S	
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13	103/05/12 ~ 103/05/18	Optimization of functions with two variables		
14	103/05/19 ~ 103/05/25	Antiderivatives of a function		
15	103/05/26 ~ 103/06/01	Integration		
16 103/06/02 ~ 103/06/08		Definite integral		
17	103/06/09 ~ 103/06/15	Applications of definite integral		
18	103/06/16 ~ 103/06/22	Final Exam Week		
Requirement		High School level Mathematics should be required. Do the homework everyweek!		
Teaching Facility		Computer, Projector, Other (Black board)		
Textbook(s)		Brief Applied Calculus, James Stewart and Daniel Clegg, Brooks/Cole 2012		
Reference(s)				
Number of Assignment(s)		10 (Filled in by assignment instructor only)		
Grading Policy		 ↑ Attendance: 15.0 %		
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . *** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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