Tamkang University Academic Year 109, 2nd Semester Course Syllabus						
Course Title	CALCULUS	Instructor	HSIAO-FAN LIU			
Course Class	TLWXB1A BACHELOR'S PROGRAM IN GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM), 1A	Details	◆ General Course ◆ Required ◆ 2nd Semester			
Relevance to SDGs SDG4 Quality education						
	Departmental Aim of Educ	ation				
I . Acquis	ition of professional knowledge.					
П. Learnir	ng effective self-planning.					
Ⅲ. Theore	tical application of practical matters.					
IV. Interpe	ersonal communication and teamwork.					
V. Analysis of problems and recommendations.						
VI. Awareness of Ethics as a global citizen.						
Subject Departmental core competences						
A. Students can demonstrate that they have program basic knowledge of business and management.(ratio:50.00)						
D. Students can demonstrate that they are critical thinkers.(ratio:50.00)						
Subject Schoolwide essential virtues						
2. Information literacy. (ratio:20.00)						
5. Independent thinking. (ratio:80.00)						

		This co	urse introduces Calculu	s with applications in business, economic	s and the	
This course introduces Calculus with applications in business, economi social and life sciences. We will focus on integrations, applications of in						
and functions of several variables.						
	Course roduction					
	The	correspo		ourse'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.						
			Š	s kinds of knowledge in the cognition of		
	the	course's	veracity, conception, pro	ocedures, outcomes, etc.		
	moi	rals, attitu	ude, conviction, values, e		l,	
III.P	-	Emphas nipulation	· ·	course's physical activity and technical		
	Tanakina Okia di a					
No.		Teaching Objectives objective methods				
		lents are expected to understand the concepts and theory of Cognitive				
	integrations, and functions of several variables, and to solve practical problems with these techniques.					
	The o	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Compet	tences	Essential Virtues	Teaching Methods	Assessment	
1	AD	_	25	Lecture, Discussion	Testing,	
					Discussion(including classroom and online), Activity Participation	
		1		Course Schedule		
Week	Date	Course		rse Contents	Note	
1 110/02/22 ~ Announcement of Grading Policy; Review on		icy; Review on				
		Derivatives, exponential and logarithmic functions				
2	110/03/01 ~	5.1 Indefinite Integration and Differential Equations				
3	110/03/08 ~ 110/03/14	5.2 Integration by Substitution				

4	110/03/15 ~ 110/03/21	5.3 The Definite Integral and the Fundamental Theorem of Calculus			
5	110/03/22 ~ 110/03/28	5.4 Applying Definite Integration: Distribution of Wealth and Average Value			
6	110/03/29 ~ 110/04/04	6.1 Integration by Parts; Integral Tables			
7	110/04/05 ~ 110/04/11	6.2 Numerical Integration			
8	110/04/12 ~ 110/04/18	6.3 Improper Integrals			
9	110/04/19 ~ 110/04/25	6.4 Introduction to Continuous Probability; Review			
10	110/04/26 ~ 110/05/02	Midterm Exam Week			
11	110/05/03 ~ 110/05/09	7.1 Functions of Several Variables			
12	110/05/10 ~ 110/05/16	7.2 Partial Derivatives			
13	110/05/17 ~ 110/05/23	7.3 Optimizing Functions of Two Variables			
14	110/05/24 ~ 110/05/30	7.4 The Method of Least-Squares			
15	110/05/31 ~ 110/06/06	7.5 Constrained Optimization: The Method of Lagrange Multipliers			
16	110/06/07 ~ 110/06/13	7.6 Double Integrals (I)			
17	110/06/14 ~ 110/06/20	7.6 Double Integrals (II); Review			
18	110/06/21 ~ 110/06/27	Final Exam Week			
Re	quirement	The grading policy will be announced in the first class, so should you not miss the first day. Otherwise, you may ask other students for the related information.			
		2. No make-up quizzes and exams.			
		3. No cheating. You will receive 0 if you get caught.			
Teaching Facility		(None)			
Textbooks and Teaching Materials		Calculus for Business, Economics, and the Social and Life Sciences, Brief edition by Hoffmann, Bradley, Sobecki, Price, 11th edition			
F	References				

Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	 ↑ Attendance: %		
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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