Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	Course Title CALCULUS		CHIANG, CHIEH			
Course Class	TLFBB1A DIVISION OF GLOBAL COMMERCE, DEPARTMENT OF INTERNATIONAL BUSINESS (ENGLISH-TAUGHT PROGRAM), 1A	Details	 General Course Required 2nd Semester 2 Credits 			
Relevance to SDGs	SDG4 Quality education Relevance o SDGs					
Departmental Aim of Education						
I. Acquis	tion of professional knowledge.					
II. Learnir	g effective self-planning.					
III. Theore	tical application of practical matters.					
IV. Interpe	IV. Interpersonal communication and teamwork.					
V. Analysi	s of problems and recommendations.					
VI. Awarer	ness 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:40.00)						
 B. Students can demonstrate that they have capability in professional knowledge expression. (ratio:10.00) 						
C. Students can demonstrate that they have capability in using information technology. (ratio:10.00)						
D. Students can demonstrate that they are critical thinkers.(ratio:40.00)						
Subject Schoolwide essential virtues						
1. A global perspective. (ratio:5.00)						
2. Information literacy. (ratio:20.00)						
3. A vision for the future. (ratio:10.00)						
4. Moral integrity. (ratio:15.00)						
5. Independent thinking. (ratio:30.00)						
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)						

7. A spirit of teamwork and dedication. (ratio:10.00) 8. A sense of aesthetic appreciation. (ratio:5.00)					
Int	Course roduction	In the s the rea technic	second semester, our foo I lift problems, especially ques that enable us to fir	cus will be on the integration and its appl y in the region of business. We will also le nd the integration of given functions	ications to Parn some
	The o	correspo	ndences between the c	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.					
I. C	Cognitive : Em	nphasis u	pon the study of various	s kinds of knowledge in the cognition of	
II.A	the ffective : Emp	course's hasis up	veracity, conception, pro on the study of various l	ocedures, outcomes, etc. kinds of knowledge in the course's appea	I,
III.P	mor sychomotor:	als, attitu Emphasi	ude, conviction, values, e is upon the study of the	etc. course's physical activity and technical	
manipulation.					
No.	Teaching Objectives				objective methods
1	Students sha	ll familia	with the definition of in	ntegration and also	Cognitive
	learn techniques that enable them to find the integration of a given function. Students are also expected to be able to use integration to				
	solve some p	roblems	arising from the busines	55.	
	The c	correspond	ences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment
No.	Core Compet	ences	Essential Virtues	Teaching Methods	Assessment
1	ABCD		12345678	Lecture	Testing, Practicum
				Course Schedule	
Week	Date		Cour	rse Contents	Note
1	114/02/17~ 114/02/235.1 indefinite integration and differential equations				
2	114/02/24~ 114/03/02	.4/02/24~ 14/03/02 5.2 Integration by Substitution			
3	114/03/03 ~ 114/03/095.3 The definite integral and the fundamental theorem of calculus				

4	114/03/10~ 114/03/16	5.4 Applying definite integration		
5	114/03/17~ 114/03/23	5.5 & 5.6 Additional applications of integration		
6	114/03/24~ 114/03/30	6.1 Integration by parts		
7	114/03/31~ 114/04/06	6.2 Numerical integration		
8	114/04/07 ~ 114/04/13	Teaching Administration Observation Period		
9	114/04/14 ~ 114/04/20	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)		
10	114/04/21~ 114/04/27	/21~ /27 7.1 Functions of several variables		
11	114/04/28 ~ 114/05/04	7.2 Partial derivatives		
12	114/05/05 ~ 114/05/11	7.3 Optimizing functions of two variables		
13	114/05/12 ~ 114/05/18	7.4 The methods of least-squares		
14	114/05/19~ 114/05/25	 7.5 Constrained optimaization: The method of lagrange multipliers 		
15	114/05/26~ 7.6 Double integrals 114/06/01 7.6 Double integrals			
16	114/06/02 ~ 114/06/08	7.6 Double integrals		
17	114/06/09~ 114/06/15	Final Exam/Final Assessment Week		
18	114/06/16~ 114/06/22	Flexible Teaching Week		
Key capabilities				
Interdisciplinary				
Distinctive teaching				
Course Content		Logical Thinking		

Requirement						
Textbooks and Teaching Materials	Self-made teaching materials:Presentations Using teaching materials from other writers:Textbooks					
References						
Grading Policy	 ♦ Attendance: % ♦ Mark of Usual: 20.0 % ♦ Midterm Exam: 40.0 % ♦ Final Exam: 40.0 % ♦ Other 〈 〉: % 					
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.					
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