Tamkang University Academic Year 108, 2nd Semester Course Syllabus

Course Title	CALCULUS	Instructor	CHIAN-JEN WANG
Course Class	TLFBB1A DIVISION OF GLOBAL COMMERCE, DEPARTMENT OF INTERNATIONAL BUSINESS (ENGLISH-TAUGHT PROGRAM), 1A	Details	General CourseRequired2nd Semester

Departmental Aim of Education

- I. Acquisition of professional knowledge.
- II. Learning effective self-planning.
- ■. Theoretical application of practical matters.
- IV. Interpersonal 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)

Course Introduction

This introductory calculus course covers differentiation and integration with applications in business, economics, and the social and life sciences. Topics to be discussed in this semester include: antiderivatives and indefinite integrals, definite integrals and areas, fundamental theorem of calculus, integration techniques, calculus of several variables, Lagrange multipliers and constrained optimization.

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.

	manipulation.									
No.			objective methods							
	Students will calculus.	be able	Cognitive							
	Students will real-world pr		Cognitive							
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment									
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment					
1	. AD		25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)					
2	AD		25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)					
	Course Schedule									
Week	Date		Cou	Note						
1	109/03/02 ~ 109/03/08	Derivatives and Antiderivatives								
2	109/03/09 ~ 109/03/15	5.1 Cost, Area, and the Definite Integral								
3	109/03/16 ~ 109/03/22	5.2 The	5.2 The Fundamental Theorem of Calculus							
4	109/03/23 ~ 109/03/29	5.3 The	5.3 The Net Change Theorem and Average Value							
5	109/03/30 ~ 109/04/05	5.4 The	e Substitution Rule							
6	109/04/06 ~ 109/04/12	5.5 Integration by Parts								
7	109/04/13 ~ 109/04/19	6.1 Area Between Curves Midterm 1								
8	109/04/20 ~ 109/04/26	6.2 Applications to Economics								

109/04/27 ~ 109/05/03	Midterm Exam Week		
109/05/04 ~ 109/05/10	6.5 Improper Integrals		
109/05/11 ~ 109/05/17	6.6 Probability		
109/05/18 ~ 109/05/24	7.1 Functions of Several Variables	Midterm2	
109/05/25 ~ 109/05/31	7.2 Partial Derivatives		
109/06/01 ~ 109/06/07	7.3 Maximum and Minimum Values		
109/06/08 ~ 109/06/14	7.4 Lagrange Multipliers		
109/06/15 ~ 109/06/21	Review		
109/06/22 ~ 109/06/28	Final Exam Week (Date:109/6/18-109/6/24)		
109/06/29 ~ 109/07/05	Supplementary teaching: Double Integrals		
quirement			
ching Facility	(None)		
oks and ng Materials	Brief Applied Calculus, by Stewart and Clegg, International Edition		
eferences			
lumber of signment(s)	(Filled in by assignment instructor only)		
Grading Policy	 ◆ Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: 40.0 % ◆ Final Exam: 30.0 % ◆ Other 〈Homework and Quizzes〉: 30.0 % 		
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.		
	109/05/03 109/05/04 ~ 109/05/10 109/05/11 ~ 109/05/17 109/05/18 ~ 109/05/24 109/05/25 ~ 109/05/31 109/06/07 109/06/07 109/06/15 ~ 109/06/21 109/06/22 ~ 109/06/28 109/06/29 ~ 109/07/05 quirement ching Facility oks and ng Materials eferences lumber of signment(s) Grading Policy	109/05/03 Midterm Exam Week 109/05/10 6.5 Improper Integrals 6.5 Improper Integrals 109/05/11 109/05/12 6.6 Probability 7.1 Functions of Several Variables 7.2 Partial Derivatives 7.2 Partial Derivatives 7.3 Maximum and Minimum Values 109/06/03 109/06/01 109/06/01 109/06/01 109/06/01 109/06/02 Review Final Exam Week (Date:109/6/18-109/6/24) 109/06/22 109/06/22 109/06/23 Supplementary teaching: Double Integrals 109/06/29 109/07/05 Supplementary teaching: Double Integrals 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109/06/29 109	

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