

Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title	CALCULUS	Instructor	CHIANG, CHIEH
Course Class	TLFBB1B DIVISION OF GLOBAL COMMERCE, DEPARTMENT OF INTERNATIONAL BUSINESS (ENGLISH-TAUGHT PROGRAM), 1B	Details	◆ General Course ◆ Required ◆ 2nd Semester
Relevance to SDGs	SDG4 Quality education		
D e p a r t m e n t a l A i m o f E d u c a t i o n			
I . Acquisition of professional knowledge. II. Learning effective self-planning. III. 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: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)

Course
Introduction

In the second semester, our focus will be on the integration and its applications to the real life problems, especially in the region of business. We will also learn some techniques that enable us to find the integration of given functions

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.

No.	Teaching Objectives	objective methods
1	Students shall familiar with the definition of integration and also 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 problems arising from the business.	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCD	12345678	Lecture	Testing, Practicum

Course Schedule

Week	Date	Course Contents	Note
1	112/02/13 ~ 112/02/19	5.1 indefinite integration and differential equations	
2	112/02/20 ~ 112/02/26	5.2 Integration by Substitution	
3	112/02/27 ~ 112/03/05	5.3 The definite integral and the fundamental theorem of calculus	

4	112/03/06 ~ 112/03/12	5.4 Applying definite integration	
5	112/03/13 ~ 112/03/19	5.5 & 5.6 Additional applications of integration	
6	112/03/20 ~ 112/03/26	6.1 Integration by parts	
7	112/03/27 ~ 112/04/02	6.2 Numerical integration	
8	112/04/03 ~ 112/04/09	Teaching Administration Observation Period	
9	112/04/10 ~ 112/04/16	6.3 Improper integrals & 6.4 Introduction to Continuous Probability	
10	112/04/17 ~ 112/04/23	Midterm Exam Week	
11	112/04/24 ~ 112/04/30	7.1 Functions of several variables	
12	112/05/01 ~ 112/05/07	7.2 Partial derivatives	
13	112/05/08 ~ 112/05/14	7.3 Optimizing functions of two variables	
14	112/05/15 ~ 112/05/21	7.4 The methods of least-squares	
15	112/05/22 ~ 112/05/28	7.5 Constrained optimaization: The method of lagrange multipliers	
16	112/05/29 ~ 112/06/04	7.6 Double integrals	
17	112/06/05 ~ 112/06/11	7.6 Double integrals	
18	112/06/12 ~ 112/06/18	Final Exam Week	
Requirement			
Teaching Facility		(None)	
Textbooks and Teaching Materials		Calculus For Business,Economics, and the Social and Life Sciences (ISBN: 978-007-131071-0)	
References			
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 40.0 % ◆ Final Exam : 40.0 % ◆ Other < > : %	

Note	<p>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.</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>
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