

Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	CALCULUS	Instructor	WANG, REN-HE
Course Class	TLBAB1A DEPARTMENT OF BANKING AND FINANCE DIVISION OF GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM),	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Required ◆ 1st Semester
Relevance to SDGs	1A SDG8 Decent work and economic growth		
Departmental Aim of Education			
<ul style="list-style-type: none"> 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			
<ul style="list-style-type: none"> 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			
<ul style="list-style-type: none"> 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

The course is divided into two semesters, with separate introductions to differentiation and integration. This semester will mainly introduce the definition of differential, its calculation rules, and its application in finance.

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	Introduce the definition of differential, calculation rules, and financial applications.	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, Practicum	Testing, Practicum

Course Schedule

Week	Date	Course Contents	Note
1	112/09/11 ~ 112/09/17	Functions, Graphs, and Limits	
2	112/09/18 ~ 112/09/24	Functions, Graphs, and Limits	
3	112/09/25 ~ 112/10/01	Functions, Graphs, and Limits	
4	112/10/02 ~ 112/10/08	Functions, Graphs, and Limits	

5	112/10/09 ~ 112/10/15	Differentiation: Basic Concepts	
6	112/10/16 ~ 112/10/22	Differentiation: Basic Concepts	
7	112/10/23 ~ 112/10/29	Differentiation: Basic Concepts	
8	112/10/30 ~ 112/11/05	Differentiation: Basic Concepts	
9	112/11/06 ~ 112/11/12	Midterm Exam Week	
10	112/11/13 ~ 112/11/19	Additional Applications of the Derivative	
11	112/11/20 ~ 112/11/26	Additional Applications of the Derivative	
12	112/11/27 ~ 112/12/03	Additional Applications of the Derivative	
13	112/12/04 ~ 112/12/10	Additional Applications of the Derivative	
14	112/12/11 ~ 112/12/17	Exponential and Logarithmic Functions	
15	112/12/18 ~ 112/12/24	Exponential and Logarithmic Functions	
16	112/12/25 ~ 112/12/31	Exponential and Logarithmic Functions	
17	113/01/01 ~ 113/01/07	Final Exam Week	
18	113/01/08 ~ 113/01/14	Flex week, learning activities should be arranged.	
Key capabilities			
Interdisciplinary			
Distinctive teaching			
Course Content		Logical Thinking	
Requirement			

Textbooks and Teaching Materials	Self-made teaching materials:Textbooks Name of teaching materials: Calculus for Business, Economics, and the Social and Life Sciences, 11th ed. Hoffmann Bradley, Sobecki Price, 東華/新月出版
References	
Grading Policy	◆ Attendance : 10.0 % ◆ Mark of Usual : 20.0 % ◆ Midterm Exam : 20.0 % ◆ Final Exam : 30.0 % ◆ Other (TA course) : 20.0 %
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.