Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

# ②國玄東華大學

# 教學計劃表 Syllabus

of the of trades							
課程名稱(中文) Course Name in Chinese	微積分(二)			學年/學期 Academic Year/Se	113/2		
課程名稱(英文) Course Name in English	Calculus(II)						
科目代碼 Course Code	DMSI10100	系級 Department 學一 & Year		開課單位 Course-Offering Department	應用數學系		
修別 Type	學程 Program	學分數/時/ Credit(s)/Hou		3.0/3.0			
授課教師 Instructor	/黃灝勻						
先修課程 Prerequisite							
課程描述 Course Description							
Ch 6 Techniques of Integration							

- Ch 7 Functions of Several Variables
- Ch 8 Trigonometric Functions
- Ch 9 Probability and Calculus
- Ch10 Series and Taylor Polynomials
- Chll Differential Equations

\*\*"Cheating, including using cell phones or other electronic devices during exams, is strictly prohibited. If caught, the exam score will be \*\*zero (0)\*\*. Make-up exams or homework will only be provided if the student has requested a leave in advance with a justifiable reason."\*\*

#### 課程目標 Course Objectives

The purpose is to facilitate the students with tools in higher mathematics for later use in finance courses.

	系專業能力 Basic Learning Outcomes	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	具備以資訊技術協助企業運作與商業管理之知識與應用能力	0
В	具備邏輯思考、問題分析與解決之能力	•
С	具備溝通協調與團隊合作之能力	0
D	具備創新思維之能力	0
Е	具備國際視野及外語溝通之能力	0

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

### 授課進度表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	Ch 5 Integration and Its Applications	
7	Ch 6 Techniques of Integration Quiz 1	

3	Ch 6 Techniques of Integration				
4	Ch 7 Functions of Several Variables Quiz 2				
5	Ch 7 Functions of Several Variables				
6	Ch 7 Functions of Several Variables Quiz 3				
7	Ch 7 Functions of Several Variables				
8	Ch 7 Functions of Several Variables				
9	期中考試週 Midterm Exam				
10	Ch 8 Trigonometric Functions				
11	Ch 8 Trigonometric Functions				
12	Ch 9 Probability and Calculus Quiz 3				
13	Ch 9 Probability and Calculus				
14	Ch10 Series and Taylor Polynomials Quiz 4				
15	Ch10 Series and Taylor Polynomials				
16	Chl1 Differential Equations Quiz 5				
17	期末考試週 Final Exam				
18	Review your final exam score and overall grade.				
	教 學 策 略 Teaching Strategies				
✓ 課堂講	授 Lecture 分組討論Group Discussion 參觀實習	Field Trip			
	scellaneous:				
	教學創新自評Teaching Self-Evaluation				
創新教學(	Innovative Teaching)				
問題導	向學習(PBL)                              解決導向導	型習(SBL)			
翻轉教	室 Flipped Classroom				
社會責任(	Social Responsibility)				
在地實踐Community Practice        產學合作 Industy-Academia Cooperation					
   跨域合作(	Transdisciplinary Projects)				
	學Transdisciplinary Teaching     跨院系教學Inter-collegiate Teaching	:			
■ 業師合授 Courses Co-taught with Industry Practitioners					
其它 othe	r:				

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例	多元評量方式 Assessments							
Items	Percentage	測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	30%	>							
期中考成績 Midterm Exam	35%	>							
期末考成績 Final Exam	35%	<b>~</b>							
作業成績 Homework and/or Assignments									
其他 Miscellaneous			日十七						

評量方式補充說明

Grading & Assessments Supplemental instructions

\*\*"Cheating, including using cell phones or other electronic devices during exams, is strictly prohibited. If caught, the exam score will be \*\*zero (0)\*\*. Make-up exams or homework will only be provided if the student has requested a leave in advance with a justifiable reason."\*\*

## 教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Larson-Calculus: An Applied Approach (Metric Edition)

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)
Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

其他補充說明(Supplemental instructions)