

國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	微積分(二)		學年/學期 Academic Year/Semester		113/2
課程名稱(英文) Course Name in English	Calculus(II)				
科目代碼 Course Code	DMSI10100	系級 Department & Year	學一	開課單位 Course-Offering Department	應用數學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		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 Ch11 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				○
B	具備邏輯思考、問題分析與解決之能力				●
C	具備溝通協調與團隊合作之能力				○
D	具備創新思維之能力				○
E	具備國際視野及外語溝通之能力				○
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				
2	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	Ch11 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
☐ 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學(Innovative Teaching)

- ☐ 問題導向學習(PBL)
 ☐ 團體合作學習(TBL)
 ☐ 解決導向學習(SBL)
☐ 翻轉教室 Flipped Classroom
 ☐ 磨課師 Moocs

社會責任(Social Responsibility)

- ☐ 在地實踐 Community Practice
 ☐ 產學合作 Industry-Academia Cooperation

跨域合作(Transdisciplinary Projects)

- ☐ 跨界教學 Transdisciplinary Teaching
 ☐ 跨院系教學 Inter-collegiate Teaching

- ☐ 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments									
配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		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(含出缺席) General Performance (Attendance Record)	30%	✓							
期中考成績 Midterm Exam	35%	✓							
期末考成績 Final Exam	35%	✓							
作業成績 Homework and/or Assignments									
其他 Miscellaneous (_____)									
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)									