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國立東華大學

教學計畫表 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)			授課教師 Instructor	Huai-Jie yao
科目代碼 Course Code		系級 Department & Year		開課單位 Course-Offering Department	COLLEGE OF SCIENCE AND ENGINEERING
修別 Type	☐ 必修 Required ☐ 選修 Elective ☐ 學程 Program	學分數/時數 Credit(s)/ Hour(s)		3	
先修課程 Prerequisite	Calculus 1				
課程描述 Course Description	In this course, students are expected to know: (1) Antiderivatives. (2) Integrals and techniques of Integration. (3) Differential Equations. (4) Sequences, Series, and Power Series. (5) Partial Derivatives. (6) Lagrange Multipliers. (7) Multiple Integrals. *** This course will be taught in English ***				

授課進度表 Teaching Schedule & Content

週次 week	內容 (Subject/Topics)	備註Remarks
1	Antiderivatives: Ch 5	
2	Integrals: Ch 5-6	
3	Integrals: Ch 6	
4	Integrals: Ch 6 -7	
5	Integrals: Ch 7	
6	Integrals: Ch 7	
7	Integrals: Ch 7 期中考試週 Midterm Exam	
8	Differential Equations: Ch 9	
9	Polar Coordinates: Chapter 10	
10	Sequences, Series, and Power Series: CH 11	
11	Sequences, Series, and Power Series: CH 11	
12	Sequences, Series, and Power Series: CH 11	
13	期中考試週 Midterm Exam	

14	Partial Derivatives: CH 14	
15	Partial Derivatives: CH 14	
16	Lagrange Multipliers : CH 14	
17	Multiple Integrals: CH 15	
18	期末考試週 Final Exam	
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 其他Others:	

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 General Performance		√							
期中考成績Midterm Exam	60%	√							
期末考成績 Final Exam	40%	√							
作業成績Homework and/or Assignments									
其他Miscellaneous (_____)									

評量方式補充說明
Grading & Assessments Supplemental instructions

There will be two midterms, each accounting for 30%. The first midterm will focus on integration theory. The date of the first midterm may change, depending on when we finish the section on integration theory.

Integration theory has much to do with differentiation. It is recommended that you review basic differentiation techniques before the semester begins.

Grading & Assessments Supplemental instructions

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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.)
Calculus: Early Transcendentals, 9/e (Metric Version) by James Stewart, Daniel K. Clegg, Saleem Watson , Lothar Redlin
課程教材網址 (教師個人網址請列在本校內之網址)
Teaching Aids & Teacher's Website (Personal website can be listed here.)
Most of the course materials will be accessible on the Google Classroom website: https://classroom.google.com/c/NzA1NzEwMjl0OTUz?cjc=qjaziw2 We will continue to use the same Google Classroom as in the previous semester. If you have already logged in, you will not need to log in again.
其他補充說明 (Supplemental instructions)