



## 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	經濟數學		學年/學期 Academic Year/Semester	111/1	
課程名稱(英文) Course Name in English	Mathematics in Economics				
科目代碼 Course Code	EC_10200	系級 Department & Year	學二	開課單位 Course-Offering Department	經濟學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/林忠樑				
先修課程 Prerequisite	/*微積分(一)				
課程描述 Course Description					
This course introduces and practices the mathematical theories for economic analysis. It will provide basic concepts and focus on the static equilibrium and optimization analysis, so that students are able to tackle economic problems using mathematical methods.					
課程目標 Course Objectives					
The course covers the mathematical structures commonly found in economics. It provides the basic mathematical background needed in quantitative economic analysis. The main focus of the course is the study of optimization theory (with and without differentiability) and its applications to economics.					
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					
2					
3					
4					
5					
6					
7					
8					
9	期中考試週 Midterm Exam				
10					
11					
12					
13					
14					

15		
16		
17		
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

其它 other:

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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									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments									
其他 Miscellaneous (_____)									

評量方式補充說明

Grading & Assessments Supplemental instructions

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.)

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)