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## ②國玄東華大學

# 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		110/1
課程名稱(英文) Course Name in English	Mathematics in Economics						
科目代碼 Course Code	EC10200	系級 Department 學二 & Year		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)						
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#### 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 参觀實習 Field Trip							
其他Mi	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							
社會責任(Social Responsibility)							
□ 在地實踐Community Practice □ 產學合作 Industy-Academia Cooperation							
□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 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			一量方式						

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.)

如要加入經濟數學課程的遠距教學,請按一下這個連結:https://meet.google.com/vna-gvra-etc

其他補充說明(Supplemental instructions)