朝陽科技大學 095學年度第1學期教學大綱
Financial Mathematics 財務數學

當期課號	1071	Course Number	1071
授課教師	林益倍	Instructor	LIN,YIH BEY
中文課名	財務數學	Course Name	Financial Mathematics
開課單位	財務金融系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要目標是討論管理數學的基本觀念，希望對學生研讀財務篤水其他相關領域的文章與知識能有所幫助，並達成下列子目標：(1)提升學生建構研究主題的能力。(2)幫助學生對現行財務領域知的了解。(3)提升學生對相關專業知識與文獻的探討能力。	Objectives	The primary objective of the course is to discuss ideas in managerial mathematics. I hope that doing this will help you meet several other objectives, namely, (1) Improve your ability to formulate viable study topics.(2) Improve your understanding of current areas of studing in finance.(3) Improve your ability to discuss and referee the work of others.
教材	本課程以中文授課, 教材以老師手搞爲主,補助教材可參考: Kolman (1997), Nicholson(2005)	Teaching Materials	Kolman (1997), “Introductory Linear Algebra,” 華泰文化事業 Nicholson (2005), “Microeconomic Theory,” 華泰文化事業
成績評量方式	作業40%,期末考30%, 平時成績30%	Grading	1. Class participation and presentation are very important factors in the final grading. 2. Some comprehensive quizzes are required in this course. 3. Home Work 40%, Final 30% and Class participation 30%.
教師網頁			
教學內容	本課程主要目的是提高同學數理基礎, 幫助同學看得懂財務金融專業知識的重要文獻, 以增加同學對財務金融的興趣, 本課程內容包括 *線性代數(向量與矩陣的運算,線性規劃..等) *最適劃求解(經濟學最重要的均衡過程與理性法則) *賽局理論(公司財務領域最重要的研究方法)	Syllabus	The primary objective of the course is to discuss ideas in managerial mathematics. I hope that doing this will help you meet several other objectives, namely, (1) Improve your ability to formulate viable study topics. (2) Improve your understanding of current areas of studying in finance. (3) Improve your ability to discuss and referee the work of others. Contents: * Introductory Linear Algebra. (1) Linear equations (2) Matrices (3) Determinants (4) Vectors (5) Linear programming * The Mathematics of Optimization (1) Maximization (2) Elasticity (3) Implicit functions (4) The envelope theorem (5) Second order condition * Game Theory (1) Basic concepts (2) Nash equilibrium (3) Pricing in static games (4) Entry and incomplete information

尊重智慧財產權，請勿非法影印。