



課 綱 Course Outline

經濟學系博士班

中文課程名稱 Course Name in Chinese	應用計量經濟學				
英文課程名稱 Course Name in English	Applied Econometrics				
科目代碼 Course Code	EC__75700	班 別 Degree	博士班 Ph. D.		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite	none				
課程目標 Course Objectives					
課程內容安排將以計量經濟學之實證應用為主，配合常用計量軟體的操作與學習，以期對計量理論模型與實證分析之間有更進一步的結合與了解。課程分作數個部分，分別針對不同理論模型，介紹常用計量軟體之基本操作、資料處理、迴歸實證分析、程式編寫等。					
系教育目標 Dept.'s Education Objectives					
1	培育具獨立學術研究與專業能力之優秀經濟人才 Foster potential talents with professional knowledge and empirical skills in economics				
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	數理分析能力：通曉經濟學的理论技巧，應用數學與賽局解決經濟議題的能力。 Mathematical analysis skills: Mastering in application of mathematical theories and game theory in analyzing economic issues.			○	
B	實證經濟分析能力：通曉經濟學的實證技巧，善用資訊科技進行資訊蒐集、資料統計與計量分析。 Empirical analysis skills: Mastering in application of statistics and econometrics in data collection and examination				
C	微觀經濟之闡釋能力：通曉個體經濟學相關的理論與應用。 Microeconomic perspective: Thorough understanding of microeconomic theories and relevant application				

D	宏觀經濟之闡釋能力：通曉總體經濟學相關的理論與應用。 Macroeconomic perspective: Thorough understanding of macroeconomic theories and relevant applicatio	○
E	樂活能力：具備適應現代社會的學養以及就業能力。 Employment opportunities: Capabilities of working on important policy and decision challenges in business and government	○
F	溝通表達能力：思路清晰，有能力與人溝通並撰寫專業研究報告。 Communication skills: Having a clear mind and profound ability in presenting professional academic research	
圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated		
課程大綱 Course Outline		
1、The Introduction to TEDC databank. 2、Cross-Sectional Models & Panel Data Models (1) Stata: Introduction, data processing, about variables, regression models, graphic, and programming. (2) Limdep: Introduction, data processing, regression, and programming. 3、Time-Series Models (1) Gauss: Introduction, data processing, matrix, and programming. (2) Rats: Introduction, data processing, regression models. 4、Other Econometrics Softwares		
資源需求評估（師資專長之聘任、儀器設備的配合．．．等） Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)		
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods		
本課程以講授方式進行，輔以課堂討論。		
其他 Miscellaneous		