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②國玄東華大學

課 綱 Course Outline

經濟學系碩士班國際組

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	ECM6900	班 別 Degree		碩士班 Master's	
修別 Type	選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0
先修課程 Prerequisite					

課程目標 Course Objectives

The objective of this course is the practical illustration and the discussion on the combination of the theoretical model with applied microeconometric techniques. Topics to be covered in the course include software operation, data management, programming, econometric model estimation, such as ordinary least squared, two-stage least squared, maximum likelihood estimation, binary responses model, panel data model, ...etc. Students are expected to use real-world data and run programs to complete assignments in class.

系教育目標 Dept.'s Education Objectives

培育具學術深造潛力及實務發展能力的優秀經濟人才。

Educate postgraduate students with professional knowledge and empirical skills for further academic research.

	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:通曉經濟學的進階理論技巧,應用數學與賽局解決經濟 議題的能力。 Mathematical analysis skills: Mastering in intermediate application of mathematical theories and game theory in analyzing economic issues.	•
В	實證經濟分析能力:通曉經濟學的進階實證技巧,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 intermediate application of statistics and econometrics in data collection and examination.	

С	微觀經濟之闡釋能力:通曉進階個體經濟學相關的理論與應用。 Microeconomic perspective: Thorough understanding of intermediate microeconomic theories and relevant application.	•			
D	宏觀經濟之闡釋能力:通曉進階總體經濟學相關的理論與應用。 Macroeconomic perspective: Thorough understanding of intermediate macroeconomic theories and relevant application.				
Е	樂活能力:具備適應現代社會的進階學養以及就業能力。 Employment opportunities: Capabilities of intermediate 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進階專業研究報告。 Communication skills: Having a clear mind and capability in writing an intermediate professional academic report.				
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated					
	課程大綱				
	Course Outline The Introduction to Stata.				
(1) (2) (3) (4) (2) (1) (2) (3) (4) (5) (5) (5)	(a) Stata Basics (b) Dealing with Variables (c) Dealing with Variables (d) Data Management (e) Programming (e) Empirical Analysis (e) Ordinary Least Squares Estimation and Hypothesis Tests (e) Instrumental Variables Estimation and Hypothesis Tests (e) Maximum Likelihood Estimation (e) Binary Response Model (e) Other Limited Dependent Variable Models (e) Other Limited Dependent Variable Models (e) Other Econometrics Software: R, Limdep, Ox…etc. § 演需求評估 (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					
	Miscellaneous				