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## ②國玄東華大學

## 課 網 Course Outline

經濟學系碩士班國際組							
中文課程名稱 Course Name in Chinese		計量經濟理論					
英文課程名稱 Course Name in English		Econometric Theory					
科目代碼 Course Code		ECM7300	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							
Econometric Theory is a required introductory master's level course. Students will be trained to understand the basics of econometrics and to apply econometric methods to real-world economic problems.  \$ \$\frac{\pmathbf{n}}{2} \frac{\pmathbf{n}}{2} \pmathbf							
京專業能力 Correlabetween Basic Learning Outcomes Object: Dept.					力相關性 Correlat between Objectiv	cion Course wes and s Education	
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	訊蒐集、資料統計	:通曉經濟學的進階實證 與計量分析。 sis skills: Mastering	•			•	

application of statistics and econometrics in data collection

intermediate microeconomic theories and relevant application.

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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

and examination.

	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。						
D	Macroeconomic perspective: Thorough understanding of	$\bigcirc$					
	intermediate macroeconomic theories and relevant application.						
	自我調整適應社會之能力:具備適應現代社會的學養以及就業能力。						
E	Employment opportunities: capabilities of working on important						
	policy and decision challenges in business and government						
	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。						
F	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							
1. Introduction to Econometrics and Economic Data							
2.	2. Fundamentals of Probability and Mathematical Statistics						
3. The Simple Regression Model							
4. Multiple Regression Analysis: Estimation							
5. Multiple Regression Analysis: Inference							
6. Multiple Regression Analysis: Further Issues							
	7. Multiple Regression Analysis with Qualitative Variables						
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.)							
Computer, Projector, and Econometric Software.							
課程要求和教學方式之建議							
Course Requirements and Suggested Teaching Methods							
其他							
Miscellaneous							