

管院學士班課程大綱

BA/BBA Program Syllabus

2023.09.20 修訂

系所 Department	經濟學系 Economics	必選修 compulsory/elective	必修 Compulsory
課程名稱 Course title	計量經濟學（一） Econometrics (I)	學分數 Credit(s)	3
課號 Course Code		全英文授課 English Taught (EMI)	否(No)
學年/學期 academic year/Semester	115/ 1 2026/ Fall	上課地點 Classroom	管院 106 College of Management 106
講授教師 Instructor	陳怡玟 Chen, Yi-Wun	上課時間 Time	10:10-12:00 (週一/三) 10:10-12:00 (Mon./ Wed.)
教師辦公室&諮詢時間 Instructor office & office hour	管院 R313/ by appointment College of Management R313/ by appointment	教師聯絡資訊 Instructor Contact	Phone: 05-2720411 ext. 34111 Email: ecdywc@ccu.edu.tw
助教 Teaching Assistant	TBA	助教 聯絡資訊 TA contact	Email: TBA
先修課程 Pre-requisite courses	Statistics (I) & (II)		
學習目標 Learning Objective	This course is designed to develop students' theoretical understanding and practical skills in econometrics. By the end of the course, students will be able to understand the fundamental assumptions and statistical properties of econometric models, use statistical software (e.g., R) to perform empirical data analysis, and independently conduct a basic empirical research project with appropriate interpretation of the estimation results.		
課程概述 Course Descriptions	This course introduces the core theoretical foundations and practical applications of econometrics. Topics include the formulation of econometric models, statistical inference, hypothesis testing, and estimation methods, with a focus on Ordinary Least Squares (OLS) and Maximum Likelihood (ML) estimation.		
對應 AOL 職能素養(AOL Competency)			
職能素養 3(Competency 3): 問題解決能力 Problem Solving Skills		職能素養 1(Competency 1): 成本效益分析 Cost-Benefit Analysis	
課程類別 Course Attributes	☐ 人文關懷課程(Humanities Caring) ☐ 競賽專題課程(Competition) ☐ 問題導向課程(Problem-solving) ☒ 專題導向課程(Project-based) ☐ 實作課程(Practice-based) ☐ 總整課程(Capstone)		

教材編選 Teaching materials	☒ 自製簡報(self-made PPTs) ☐ 課程講義(Teaching Notes) ☐ 自編教科書(self-made textbooks) ☐ 教學程式(programming) ☐ 自製教學影片(self-made video) ☐ 其他(Others)			
教學資源 Teaching Resources	☐ 課程網站(Website) ☐ 實習網站(Intern Web) ☒ 教材電子檔供下載(Downloadable Files)			
教科書/參考書 Textbooks/References	The primary instructional materials for this course are the lecture notes provided in class. Most of the course content can also be found in many econometrics textbooks and related online resources. <u>The following two textbooks are recommended for supplementary reading but are not required.</u> 1. Wooldridge, J. M. (2025). <i>Introductory econometrics: A modern approach</i> (8th ed.). Cengage Learning. 2. 陳彧夏 (2001)。計量經濟學—單一方程式。台北市：學富文化。 (Please follow copyright rules and do not illegally copy textbooks; 請尊重智慧財產權，不得非法影印教師指定之教科書籍)			
評量方式(請填百分比) Assessment	課堂參與 Participation	10%	個案討論 Case study	%
	作業 Homework	30%	專題 Project	%
	小考 Quiz		其他 1 other ()	%
	期中考 Midterm	40%	其他 2 other ()	%
	期末考 Final	20%	其他 3 other ()	%
	報告 Presentation	%	其他 4 other ()	%
其他說明 Other description	Homework (30%): - There will be three homework assignments. - The due date of submission will be posted with the homework. I will post homework at an earlier time (at least one week before the due date). Hence, late submission will not be accepted and there will be no make-up for any missed homework. - You can discuss the questions with classmates. But, the final answers on your submission should be derived on your own. TA Discussion Section--- Participation (10%): - Weekly discussion sections will be conducted by the TA. These sessions will focus on reviewing lecture notes, practicing econometric problem sets, and conducting empirical implementations using R. Midterm Exam (40%): - There are two midterm exams. - There will be no early or make-up midterm exam for any reason.			

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| | <ul style="list-style-type: none">• If you need to skip or miss the midterm exam due to a legitimate reason, the weights of assessment of the midterm exam will be added to the final exam, but you need to inform me before the exam and with a valid documentation. Otherwise, you will get zero in the midterm exam. |
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Final Exam (20%):

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| | <ul style="list-style-type: none">• There will be no early or makeup final exam, unless with a legitimate reason and valid documentation. Otherwise, you will get zero in the final exam. |
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課程規劃表 Course Schedule

週次 week	日期 Date	內容 Description	教材章節 Textbook	其他說明 Remark
1.	9/7、9	Review of Statistics		
2.	9/14、16	Simple Regression		
3.	9/21、23	Simple Regression		
4.	9/30	Interval Estimation, Hypothesis Testing, and Prediction (Simple Regression)		HW1
5.	10/5、7	Interval Estimation, Hypothesis Testing, and Prediction (Simple Regression)		
6.	10/12、14	Midterm Exam 1 (10/14)		Midterm 1
7.	10/19、21	Multiple Regression		
8.	10/28	Multiple Regression		
9.	11/2、4	Interval Estimation, Hypothesis Testing, and Prediction (Multiple Regression)		HW2
10.	11/9、11	Interval Estimation, Hypothesis Testing, and Prediction (Multiple Regression)		
11.	11/16、18	Midterm Exam 2 (11/18)		Midterm 2
12.	11/23、25	Violations of Basic Assumptions		
13.	11/30、12/2	Violations of Basic Assumptions		
14.	12/7、9	Theoretical Models of Limited Dependent Variables and Their Applications		HW3
15.	12/14、16	Theoretical Models of Limited Dependent Variables and Their Applications		
16.	12/21、23	Final Exam (12/23)		Final Exam
17.	12/28、30	Self-Learning		
18.	1/4、6	Self-Learning		