管院研究所課程大綱
MA Program Syllabus

系所 Department	經濟學系 Economics		必選修 compulsory/elective	選修 Elective
課程名稱 Course title	個體經濟理論（二）		學分數 Credit(s)	3
課號 Course Code	5105102_01		全英文授課 English Taught (EMI)	否(No)
學年/學期 academic year/Semester	114-2 Spring Semester 2026		上課地點 Classroom	School of Management 322
講授教師 Instructor	Peter Shum （沈豪斌）		上課時間 Time	Tu 10:10– 13:00
教師辦公室&諮詢時間 Instructor office & office hour	In Person: Tuesday 14:00-16:00 @ School of Management Room 316; Online: Check "Important Information".	教師聯絡資訊 Instructor Contact		Phone: 05-2720411 ext.34168 Email: ch@hopanshum.com
助教 Teaching Assistant	N/A	助教 聯絡資訊 TA contact		Email: N/A
先修課程 Pre-requisite courses	個體經濟理論（一）			
學習目標 Learning Objective	This course is designed to explore the breadth of interesting applied economic theories. Upon completion, students are expected to 1. Identify competitive and cooperative interdependences in decision making; and 2. Apply game-theoretic concepts and models to strategic interaction problems; and 3. Understand various modern economic theory topics such as teamwork, matching, social choice, persuasion, information management, etc.; and 4. Apply the economic intuitions from the above topics to real world scenarios; and 5. Extract the essence of applied theories into easy-to-understand stories; and 6. Deploy modern technologies needed for future academic and career success.			
課程概述 Course Descriptions	本課程所有資料會以英文提供，唯上課使用中文爲教學語言。考試和作業皆可以用中文回答。 Economic theories are fables: simplified stories that convey insight by distilling complex realities into stylized, imaginary settings. In this course, we aim to look past the mathematical wrapper that often serves auxiliary purposes in economic research, and instead extract the core lessons offered by modern economic theory. The course is organized into two main parts. In the first part, we focus on the foundational tools required to formulate a sound economic theory. This includes learning logic and game theory in a constructive manner. Students are expected to			

master the material in this section and develop the analytical skills that will be essential for the remainder of the course.

In the second part, we explore a range of topics from applied economic theory. The objective here is not to work through technical details, but to understand the fundamental incentive mechanisms underlying classic results, such as free-riding in teamwork, stable matching in marriage markets, Arrow's impossibility theorem, and persuasion through information concealment.

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	Watson, Joel. Strategy: An Introduction to Game Theory. 3rd ed., W.W. Norton & Company, 2013. [Main]		

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	20%	專題 Project	%
	小考 Quiz	%	其他 1 other ( )	%
	期中考 Midterm	30%	其他 2 other ( )	%
	期末考 Final	40%	其他 3 other ( )	%
	報告 Presentation	%	其他 4 other ( )	%

其他說明 Other description	Students **must** read the document "Important Information" on top of this syllabus, which can be found on the course website. Assessment methods and course policies could be found in the same document.

課程規劃表 Course Schedule

週次 week	日期(週一) Date(Monday)	內容 Description	教材章節 Textbook	其他說明 Remark
1.	2/23	Course Introduction; Syllabus Rundown; Backward Induction	2	
2.	3/2	Strategies and the Normal Form; Beliefs, Mixed Strategies, and Expected Payoffs	3, 4	
3.	3/9	Logic	-	
4.	3/16	Nash Equilibrium	9	HW1
5.	3/23	Mixed-Strategy Nash Equilibrium	11	
6.	3/30	Subgame Perfection	14, 15	HW2
7.	4/6	**Mid-term Exam I**		
8.	4/13	Principal Agent Problem and Revelation Principle	25	
9.	4/20	Bayesian Nash Equilibrium	26	HW3
10.	4/27	Perfect Bayesian Equilibrium	28	
11.	5/4	Holstrom's Moral Hazard; Hermalin's Leadership	-	HW4
12.	5/11	**Mid-term Exam II**		
13.	5/18	Gale&Shapley's Matching; Arrow's Impossibility	-	
14.	5/25	Kamenica&Gentzkow's Persuasion; Ely's Beep	-	HW5
15.	6/1	Ely, Frankel&Kamenica's Suspense and Surprise	-	
16.	6/8	Reservation/Revision		HW6
17.	6/15	*No Class*		
18.	6/22	**Final Exam**		