



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	總體經濟分析與應用		學年/學期 Academic Year/Semester	110/1
課程名稱(英文) Course Name in English	Macroeconomic Analysis and Application			
科目代碼 Course Code	EC_50400	系級 Department & Year	碩士	開課單位 Course-offering Department
修別 Type	必修 Required	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/張銘仁			
先修課程 Prerequisite				
課程描述 Course Description				
This course is constructed to familiarize students with the skills of modern macroeconomic theory at the graduate level. Models are developed to explain how growth model, real business cycles, Keynesian theory and microeconomic foundation models are determined.				
課程目標 Course Objectives				
This course is constructed to familiarize students with the skills of modern macroeconomic theory at the graduate level. Models are developed to explain how growth model, real business cycles, Keynesian theory and microeconomic foundation models are determined.				
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.			●
B	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			●
C	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			●
E	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				
授課進度表 Teaching Schedule & Content				
週次 Week	內容 Subject/Topics			備註 Remarks
1	The Solow Growth Model (chapter 1)			

2	The Solow Growth Model (chapter 1)	
3	The Solow Growth Model (chapter 1)	
4	Infinite-Horizon and Overlapping-Generations Models (chapter 2)	
5	Infinite-Horizon and Overlapping-Generations Models (chapter 2)	
6	Endogenous Growth (chapter 3)	
7	Endogenous Growth (chapter 3)	
8	Midterm	
9	Real-Business-Cycle Theory (chapter 5)	
10	Real-Business-Cycle Theory (chapter 5)	
11	Nominal Rigidity (chapter 6)	
12	Dynamic Stochastic General-Equilibrium Models of Fluctuations (chapter 7)	
13	presenting	
14	presenting	
15	no class	
16	presenting	
17	presenting	
18	期末考試週 Final Exam	

教學策略 Teaching Strategies

- 課堂講授 Lecture
 分組討論 Group Discussion
 參觀實習 Field Trip
 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- 問題導向學習 (PBL)
 團體合作學習 (TBL)
 解決導向學習 (SBL)
 翻轉教室 Flipped Classroom
 磨課師 Moocs

社會責任 (Social Responsibility)

- 在地實踐 Community Practice
 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching
 跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	5%	✓							
期中考成績 Midterm Exam	35%	✓							
期末考成績 Final Exam	35%								
作業成績 Homework and/or Assignments	30%		✓	✓	✓				
其他 Miscellaneous (_____)	0%								

評量方式補充說明

Grading & Assessments Supplemental instructions

The course grade will be based on a group presenting and a midterm exam with a comprehensive final exam [5% participation rate + 30% group presenting (no more than 2 students a group) + 35% Midterm + 35% Final].

Exams are scheduled for the following dates.

Midterm Nov. 12, in class

Final term Jan. 14, in class

教科書與參考書目 (書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Advanced Macroeconomics, 5th Edition, David Romer, 2019, New York, NY: McGraw-Hill/Irwin (ISBN 978-1260185218).

課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

Reading list:

- [1] Bianchi, J. 2011, Overborrowing and systemic externalities in the business cycle, *American Economic Review* 101, 3400 - 3426.
- [2] Bianchi, J. and E.G. Mendoza, 2018, Optimal time-consistent macroprudential policy, *Journal of Political Economy* 126, 588 - 634.
- [3] Chang J.-J., H.-Y. Lin, N. Traum, and S.-C. S. Yang, 2021, Fiscal consolidation and public wages, *Journal of Money, Credit and Banking* 53, 503-533.
- [4] Chang, T.-T. and Y. Li, 2021, Banking, liquidity effects, and monetary policy, *Macroeconomic Dynamics*, forthcoming.
- [5] Chen, B.-L. and S.-Y. Liao, 2018, Durable goods, investment shocks and the comovement problem, *Journal of Money, Credit and Banking* 50, 377-406.
- [6] Chu, A.C., G. Cozzi, C.-C. Lai and C.-H. Liao, 2015, Inflation, R&D and growth in an open economy, *Journal of International Economics* 96, 360-374.
- [7] Chu, A.C., K. Kan, C.-C. Lai and C.-H. Liao, 2014, Money, random matching and endogenous growth: A quantitative analysis, *Journal of Economic Dynamics and Control* 41, 173-187.
- [8] Chu, A.C., C.-C. Lai and C.-H. Liao, 2019, A tale of two growth engines: Interactive effects of monetary policy and intellectual property rights, *Journal of Money, Credit and Banking* 51, 2029-2052.
- [9] Ellisona, M. and N. Rankin. 2007. Optimal monetary policy when lump-sum taxes are unavailable: A reconsideration of the outcomes under commitment and discretion, *Journal of Economic Dynamic & Control* 31, 219 - 243.
- [10] Farhi, E. and I. Werning, 2016, A theory of macroprudential policies in the presence of nominal rigidities, *Econometrica* 84, 1645 - 1704.
- [11] Fender, J. and N. Rankin, 2003, A small open economy with staggered wage setting and intertemporal optimization: The basic analytics, *Manchester School* 71, 396 - 416.
- [12] Khan, A., R.G. King and A. Wolman, 2003, Optimal monetary policy, *Review of Economic Studies* 70, 825-860.
- [13] Lenel, M., M. Piazzesi, and M. Schneider, 2019, The short rate disconnect in a monetary economy, *Journal of Monetary Economics* 106, 59 - 77.
- [14] Li, Y., G. Rocheteau and P.-O. Weill, 2012, Liquidity and the threat of fraudulent assets, *Journal of Political Economy* 120, 815-846.
- [15] Liao, P.-J., 2011, Does demographic change matter for growth? *European Economic Review* 55, 659-677.
- [16] Obstfeld, M. and K. Rogoff, 1995, Exchange rate dynamics redux, *Journal of Political Economy* 103, 624 - 660.
- [17] Obstfeld, M., and K. Rogoff, 2000, New directions for stochastic open economy models, *Journal of International Economics* 50, 117 - 153.
- [18] Schmitt-Grohé, S. and M. Uribe, 2004, Optimal fiscal and monetary policy under sticky prices, *Journal of Economic Theory* 114, 198 - 230.
- [19] Schmitt-Grohe, S. and M. Uribe, 2017, Is optimal capital control policy countercyclical in open economy models with collateral constraints? *IMF Economic Review* 65, 498 - 527.
- [20] Shen, W. and S.-C.S. Yang, 2018, Downward nominal wage rigidity and state-dependent government spending multipliers, *Journal of Monetary Economics* 98, 11-26.
- [21] Smets, F. and R. Wouters. 2007. Shocks and frictions in US business cycles: A Bayesian DSGE approach, *American Economic Review* 97, 586 - 606.
- [22] Stein, J.C., 2012, Monetary policy as financial-stability regulation, *Quarterly Journal of Economics* 127, 57 - 95.