



## 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	環境經濟學	學年/學期 Academic Year/Semester	111/2
課程名稱(英文) Course Name in English	Environmental Economics		
科目代碼 Course Code	IIE_56100	系級 Department & Year	碩士 Course-Offering Department
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0
授課教師 Instructor	/林慧菁		
先修課程 Prerequisite			
課程描述 Course Description			
主要以講解並討論研究分析環境經濟議題的期刊論文與相關文獻，使同學瞭解當前的環境保護政策背後的經濟理念，並學習如何以經濟分析工具評估環境保護政策的利弊得失。			
課程目標 Course Objectives			
介紹當前的環境經濟政策之理論架構與分析方法，如：environmental philosophy and ethics, markets and efficiency, the valuation of environmental amenities, pollution regulation, policy options and analysis; and international issues。			
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	開學週 課程介紹		
2	Hanley: the Economics Perspective on the Environment (Ch 1)		

3	Hanley: (Ch 1), Issues and Trend : Tim Jackson, Prosperity Without Growth, 2009, 2017	no class (2/27)
4	Issues and Trend: (continued) D. A. Underwood (1998), "The institutional origins of crisis for economy and ecology", Journal of Economic Issues, 32(2), 513-522.  Bill Shaw (2001), "Economics and the environment-A land ethic critique of economic policy", Journal of Business Ethics, 33, 51-57.	
5	Issues and Trend: (continued) John M. Gowdy (2004), "The Revolution in Welfare Economics and Its Implications for Environmental Valuation and Policy", Land Economics, 80(2), 239-257.  Paul R. Portney(2000), "Environmental Problems and Policy: 2000-2050", The Journal of Economic Perspectives, 14(1), 199-206.  optional: Brian R. Copeland; M. Scott Taylor (2004), "Trade, Growth, and the Environment", Journal of Economic Literature, 42(1), 7-71.	
6	Basic Concepts:Market Failure (Hanley Ch 2)	
7	Basic Concepts:Market Failure (Hanley Ch 3)	
8	The Problem of Social Cost R. H. Coase Journal of Law and Economics, Vol. 3, Oct., 1960 (Oct., 1960), pp. 1-44.	no class (4/3)
9	期中考試週 Midterm Exam	Take-home exam, due next week in class
10	The Problem of Social Cost: R. H. Coase, "The Problem of Social Cost" , Journal of Law and Economics, Vol. 3, Oct., 1960 (Oct., 1960), pp.1-44.  and comments	
11	The "Coase Theorem": A Reexamination--Comment Jeffrey F. Jaffe The Quarterly Journal of Economics, Vol. 89, No. 4. (Nov., 1975), pp. 660-661.  The "Coase Theorem": A Reexamination G. A. MumeY The Quarterly Journal of Economics, Vol. 85, No. 4. (Nov., 1971), pp. 718-723.	
12	Information: (Ch 2, p. 43-57) Information and the Coase Theorem Joseph Farrell The Journal of Economic Perspectives, Vol. 1, No. 2. (Autumn, 1987), pp. 113-129.  and Externalities:	
13	Externalities: Decentralization, Externalities, and Efficiency Peter Klibanoff; Jonathan Morduch The Review of Economic Studies, Vol. 62, No. 2. (Apr., 1995), pp. 223-247.  and Asymmetric Information	

14	Externalities and Asymmetric Information Jeremy Greenwood; R. Preston McAfee The Quarterly Journal of Economics, Vol. 106, No. 1. (Feb., 1991), pp. 103-121.  and Porter's Hypothesis	
15	Regulation and innovation: (Porter's Hypothesis) Tightening Environmental Standards: The Benefit-Cost or the No-Cost Paradigm? Karen Palmer; Wallace E. Oates; Paul R. Portney The Journal of Economic Perspectives, Vol. 9, No. 4. (Autumn, 1995), pp. 119-132.  Toward a New Conception of the Environment-Competitiveness Relationship Michael E. Porter; Claas van der Linde The Journal of Economic Perspectives, Vol. 9, No. 4. (Autumn, 1995), pp. 97-118.	
16	Pollution Control Polic (Porter's Hypothesis) A theoretical foundation of the Porter hypothesis Stefan Ambec and Philippe Barlac Economics Letters Volume 75, Issue 3, May 2002, Pages 355-360	
17	Transaction Costs and Tradeable Permits Stavins Robert N. Journal of Environmental Economics and Management Volume 29, Issue 2, September 1995, Pages 133-148 y and R&D Investment : Permits, Standards, and Technology Innovation Juan-Pablo Montero Journal of Environmental Economics and Management Volume 44, Issue 1, July 2002, Pages 23-44	Final take-home exam will be posted 給期末考題目
18	期末考試週 Final Exam (期末口頭報告)(交take-home exam)	1. Oral presentation 2. hand in your take-home 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:

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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	10%		✓						
期中考成績 Midterm Exam	30%	✓							
期末考成績 Final Exam	30%	✓							
作業成績 Homework and/or Assignments	30%			✓					口頭報告後並繳交 學其報告1篇
其他 Miscellaneous (_____)									

評量方式補充說明

Grading & Assessments Supplemental instructions

期末報告一篇，期中、期末考 (take-home exam)。

期末報告：佔30%，

期中、期末考：各佔30%，

平時成績：佔10%

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.)

參考資料 (教科書)：

Hanley, N., J. F. Shogren and B. White, 1997, Environmental Economics: in Theory and Practice, Oxford University Press. (代理商未知，如無法買到，可能以印講義方式或以替代教材處理)

參考資料：將於課前通知，如有可能將放在網頁上供同學下載。

Freeman, A. M., III, 1993, The Measurement of Environmental and Resource Values, Washington DC: Resources for the Future.

Dorfman, R. and N. S. Dorfman, eds., 1993, Economics of the Environment: Selected Readings, 3rd Edition. New York: Norton.

等等……

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.)

<http://faculty.ndhu.edu.tw/~hclin/index.html>

其他補充說明 (Supplemental instructions)