



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	102/2
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	開課單位 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				
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 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 application of statistics and econometrics in data collection and examination			
C	微觀經濟之闡釋能力：通曉個體經濟學相關的理論與應用。Microeconomic perspective: Thorough understanding of microeconomic theories and relevant application			○
D	宏觀經濟之闡釋能力：通曉總體經濟學相關的理論與應用。Macroeconomic perspective: Thorough understanding of macroeconomic theories and relevant application			○
E	樂活能力：具備適應現代社會的學養以及就業能力。Employment opportunities: Capabilities of 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專業研究報告。Communication skills: Having a clear mind and capability in writing a 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 Economics Perspective on the Environment			
2	Issues and Trend			
3	Basic Concepts: Market Failure			
4	Basic Concepts: The Problem of Social Cost			

5	Basic Concepts: Information 1	
6	Basic Concepts: Information 2	
7	Basic Concepts: Welfare Theory and Benefit-Cost Analysis 1	
8	Basic Concepts: Welfare Theory and Benefit-Cost Analysis 2	
9	期中考試週 Midterm Exa	
10	Pollution Control: Emission Standards and Fees, Taxes	
11	Pollution Control: Tradeable Permit 1	
12	Pollution Control: Tradeable Permit 2	
13	Valuing Costs and Benefits: Transaction Cost	
14	Valuing Costs and Benefits: Uncertainty, Use and Nonuse values	
15	Valuing Costs and Benefits: Contingent Valuation 1	
16	Valuing Costs and Benefits: Contingent Valuation 2	
17	Valuing Costs and Benefits: Travel Cost and Hedonics	
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: 期末報告

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									
其他 Miscellaneous (期末報告)	30%								

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）。

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 (教師個人網址請列在本校內之網址)
Teaching Aids & Teacher's Website (Personal website can be listed here.)

<http://faculty.ndhu.edu.tw/~hclin/env-grad.html>

其他補充說明 (Supplemental instructions)