



## 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	EC__40200	系級 Department & Year	學三	開課單位 Course-Offering Department	經濟學系
修別 Type	學程 Program	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	/*經濟學原理-個體篇				
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					
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					
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：應用數學與賽局理論分析與解決經濟議題的能力。Mathematical analysis skills: application of mathematical theories and game theory to analyze economic issues				○
B	實證經濟分析能力：善用資訊科技進行資訊蒐集、資料統計與計量分析。Empirical analysis skills: 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: 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: 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				○
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	Introduction				
2	The Role of Economics in Environmental Management?				
3	Modeling the Market Process				
4	Modeling Market Failure				
5	Conventional Solutions to Environmental Problems: The Command-and-Control Approach				

6	Economic solutions to Environmental Problems: The Market Approach	
7	Environmental Risk Analysis	
8	Environmental Risk Analysis (cont.)	
9	期中考試週 Midterm Exam	
10	Assessing Benefits for Environmental Decision Making	
11	Assessing Benefits for Environmental Decision Making Assessing Costs for Environmental Decision Making	
12	Assessing Costs for Environmental Decision Making (cont.)	
13	Benefit-Cost Analysis	
14	Benefit-Cost Analysis (cont.)	
15	Defining Air Quality: The Standard-Setting Process	
16	Improving Air Quality: Controlling Mobile sources	
17	Improving Air Quality: Controlling Stationary Sources	
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: 期末研究分析報告

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	0%								
期末考成績 Final Exam	30%	✓							
作業成績 Homework and/or Assignments									
其他 Miscellaneous (期末報告)	60%			✓	✓				

評量方式補充說明

Grading & Assessments Supplemental instructions

期末報告60% (期中大綱報告20%，成果報告40%)，期末考30%，課堂表現 (出席率) 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.)

S. J. Callan and J. M. Thomas (2013), Environmental Economics and Management: Theory, Policy, and Applications, 6th edition, South-Western, International Edition.

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-econ.html>

其他補充說明 (Supplemental instructions)