



課 綱 Course Outline
經濟學系學士班

中文課程名稱 Course Name in Chinese	環境經濟學				
英文課程名稱 Course Name in English	Environmental Economics				
科目代碼 Course Code	EC_40200	班 別 Degree	學士班 Bachelor's		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite	經濟學原理-個體篇。				
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					
系教育目標 Dept.'s Education Objectives					
1	培育具專業知識與實務發展潛力的優秀經濟人才。 Educate students to be equipped with professional knowledge and empirical skills in economics.				
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	○
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圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱
Course Outline

- 1、Introduction: the Economics Perspective on the Environment
 - (1) What is Environmental Economics
 - (2) The Economy and the Environment
- 2、Basic Analytical Concepts and Tools
 - (1) Benefits and Costs, Supply and Demand
 - (2) Economic Efficiency and Markets
 - (3) The Economics of Environmental Quality
- 3、Environmental Analysis
 - (1) Frameworks of analysis
 - (2) Benefits
 - (3) Costs
- 4、Policy Analysis
 - (1) Criteria for Evaluating Environmental Policies
 - (2) Decentralized Policies: Liability Laws, Property Rights, Moral Suasion
 - (3) Command-and-Control Strategies: The Case of Standards
 - (4) Incentive Based Strategies: Emission Taxes and Subsidies
 - (5) Incentive Based Strategies: Transferable Discharge Permits
- 5、Environmental Policies: Case Studies
 - (1) Water Pollution Control Policy in the US
- 6、International Environmental Issues
 - (1) The Global Environment
 - (2) International Environmental Agreement

資源需求評估（師資專長之聘任、儀器設備的配合．．．等）
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

本課程以講授方式進行，輔以課堂討論。

其他
Miscellaneous