



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	自我調整適應社會之能力：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		
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		