



課 綱 Course Outline
自然資源與環境學系博士班

中文課程名稱 Course Name in Chinese	自然資源與環境研究特論				
英文課程名稱 Course Name in English	Advanced Research on Natural Resources and Environment				
科目代碼 Course Code	NRD_70700	班 別 Degree	博士班 Ph. D.		
修別 Type	必修 Required	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
討論當代的自然資源與環境研究的最新主題與方法、生態系管理、氣候變遷衝擊因應策略、傳統生態智慧、社區保育、永續自然保育與環境資源管理策略。					
系教育目標 Dept.'s Education Objectives					
1	培養兼具國際視野與本土關懷的學生 To develop students who care about local issues and have an international perspective				
2	培養具備自然科學與社會科學知識的人才 To educate students to have knowledge of both the natural and social sciences				
3	培養具備環境倫理與人文素養的環境公民 To teach students to be environmental citizens (i.e., knowledgeable about environmental ethics and human 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	具備自然科學與社會科學的研究能力，並了解各種研究典範所蘊含的哲學基礎與世界觀 To prepare the students with the ability to understand the natural and social science theories and paradigms				●
B	具備環境倫理與整全的生態哲思，並有能力轉化為思想論述與社會實踐 To instill comprehensive consideration of environmental ethics, ecological principles and social practice				●

C	具備跨領域知識之整合能力，並能運用多元的策略落實於社會改革，以解決本土與全球的環境問題 To implement sustainable lifestyles based on environmental ethics and ecological principles	●
D	能整合生態及社會文化的觀點，以獨立或團體動力方式評估環境議題，澄清相關的價值觀，並提出解決方案 To implement ecological and social perspectives as an individual or in groups to evaluate, clarify, and provide solutions for relevant environmental issues	●
E	具備在大學、政府、企業、第三部門或研究機構進行研究、教學、與社會關懷的能力 The ability to do research, teach and encourage social concern in universities, governments, companies, NGO' s or institutes	○

圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱 Course Outline

- 一、永續未來的自然資源保育管理
- 二、傳統生態智慧與自然資源管理
- 三、生態系管理原則、反彈基礎的自然資源管理原則
- 四、社區與保育：全球化議題
- 五、環境與自然資源的政策分析工具
- 六、氣候變遷對自然資源管理方法的衝

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.)

投影機、幻燈機、筆記型電腦、大型討論桌

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

本課程上課以課堂講授及學生選擇某資源議題進行討論。

其他 Miscellaneous

- 一、Chiras, Daniel D. and John P. Reganold., 2009, Natural Resource Conservation: Management for a Sustainable Future, Addison Wesley; 10 edition
- 二、Menzies, Charles R. 2006, Traditional Ecological Knowledge and Natural Resource Management, University of Nebraska Press.
- 三、Chapin, F. Stuart III., Gary P. Kofinas, Carl Folke, and M.C. Chapin 2009, Principles of Ecosystem Stewardship: Resilience-Based Natural Resource Management in a Changing World, Springer.
- 四、Brosius, J. Peter 2005, Communities and Conservation: Histories and Politics of Community-Based Natural Resource Management (Globalization and the Environment) AltaMira Press
- 五、Sterner, Thomas 2002, Policy Instruments for Environmental and Natural Resource Management RFF Press.
- 六、Jana, Bipal K. and Mrinmoy Majumder, 2010, Impact of Climate Change on Natural Resource Management, Springer