



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	環境與資源規劃特論				
英文課程名稱 Course Name in English	Advance of environment and resources planning				
科目代碼 Course Code	NRES70500	班 別 Degree	博士班 Ph. D.		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
This course is aimed to lead students to the element of environmental Management, especial to apply “cradle to cradle” method. Economic development has not always taken credit of its potential impact on our society and environment. Environmental problems have raised big concerns by public. Cases in the real world will be used in the class to learn the application to analysis environmental problems, then to seeking a practical solution for policy maker					
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

1. I Analysis and Managing Environmental Problems
2. Changing Patterns- Sustainable Development
3. Environmental Management-Fundamentals and Goals
4. Environmental Law and Strategic
5. Vision, Mission, Values, and Environmental Policy
6. Sustainable Development & Climate Change
7. Concept of C2C
8. Methodologies
9. Environmental reforms and Sustainability Decisions
10. European Environmental Management-- EMAS & ISO Introduction of ISO 14000
11. Case Study-Going Greening

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.)

PC, Projector, Not book, Field trip.

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

This course uses a "Learn-Think-Do" model. To practice by doing: Weekly Reading Assignments, Assignments, term paper and oral presentation.

其他 Miscellaneous