②國玄東華大學

課 網 Course Outline

自然資源與環境學系碩士班國際組

中文課程名稱 Course Name in Chinese	統計學緒論					
英文課程名稱 Course Name in English	Introduction to Statistics					
科目代碼 Course Code	NRESM0040	班 別 Degree		碩士班 Master's		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite	None					
課程目標 Course Objectives						
Course Objectives 1. Introduction to basic concepts in statistics. 2. Exploration in statistical methods.						
系教育目標 Dept.'s Education Objectives						
培養兼具國際視野與本土關懷的學生 1 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.						
培養具備環境倫理與人文素養的環境公民 3 To teach students to be environmental citizens (i.e., knowledgeable about environmental ethics and human issues.).						
系專業能力 Basic Learning Outcomes			力相關性 Correlat between Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A 能覺知多元的自然科學與社會科學理論並具備研究能力 To have knowledge of natural and social science theories.				•		
B To be able to in	類社會議題之調查分析、 vestigate, analyze, p and human social iss	lan, and man			•	
C To implement sus	生態思想落實於永續性生 tainable lifestyles ba gical principles.					

	能以整全式的觀點來解析環境問題,並具備發展系統性解決方案的能力				
D	To resolve environmental issues and develop systematic				
	solutions with a global perspective.				
	具備系統分析、未來思考、溝通協調與團隊合作的能				
E	The ability to analyze, plan, communicate, and coordinate with	\bigcirc			
	others (teamwork)				
	具備終身學習、國際視野與外語溝通的能力				
F	To instill the values of lifelong learning, an international				
perspective, and the ability to communicate in a foreign language.					
					圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated
課程大綱					
Course Outline					
1. Probability					
2. Sampling methods					
3. Random variables and its description					
4. Significance tests					
5. Comparing populations					
6. Goodness of fit 7. Regression					
8. Discussion on special topics					
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.)					
1. Computer room 2. Internet acces					
	課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods				
1. Lecture.					
2. Practical with statistical packages.					
其他					
Miscellaneous					
1. Leading discussion 10%					
2. Discussion 20%					
3. Assignments 50%					
4. Final exam 20%					