



課 綱 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	應用統計分析方法				
英文課程名稱 Course Name in English	Applied Statistic analysis				
科目代碼 Course Code	NRESM0440	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					
課程目標 Course Objectives					
<p>This is an introductory course for students in NRES and CES. In this course the students will learn the principles and methods of statistical analysis, but will also put them into practice using a range of real-world data sets. The objective is to provide a basic understanding of data analysis using statistics and to use computational tools on problems of applied nature. Moreover, we also can use this method to analyze the research questions on ecotourism, tourist attractions, environmental education, protected area management, human-wildlife conflicts, and the endangered species conservation et al.</p>					
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	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	具備自然資源與人類社會議題之調查分析、規劃與經營之能力 To be able to investigate, analyze, plan, and manage both natural resource and human social issues.	
C	具備將環境倫理與生態思想落實於永續性生活型態的能力 To implement sustainable lifestyles based on environmental ethics and ecological principles.	
D	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 To resolve environmental issues and develop systematic solutions with a global perspective.	
E	具備系統分析、未來思考、溝通協調與團隊合作的能 The ability to analyze, plan, communicate, and coordinate with others (teamwork)	
F	具備終身學習、國際視野與外語溝通的能力 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

Applied Statistical Methods covers the fundamental understanding of statistical methods necessary to deal with a wide variety of practical problems. We focusing on presents the topics covered in a manner that stresses clarity of understanding, interpretation, and method of application.

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

Lecture

Group Discussion

其他

Miscellaneous

General Performance:30%

Final Report: 30%

Homework and/or Assignments:40%

Joseph F. Hair Jr. William C. Black Barry J. Babin Rolph E. Anderson, 2014,
“Multivariate Data Analysis, “ 7th ed., Prentice-Hall