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# ②國玄東華大學

#### Course Outline 課

## 自然資源與環境學系博士班

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	NRES71200	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 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.					
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)				
	糸專業能力	課程目標與系專業能 力相關性 Correlation			

	Objectives and Dept.'s Education Objectives	
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		

A

В	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	
С	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	
Е	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 concernin 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

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