

朝陽科技大學 095學年度第1學期教學大綱
Applied Statistics 應用統計

當期課號	7310	Course Number	7310
授課教師	李克明	Instructor	LEE,KEH MING
中文課名	應用統計	Course Name	Applied Statistics
開課單位	應用外語系碩士班一A	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	本課程包括兩部份，第一部份涵蓋全部描述統計完整的範圍，主要內容為常用的精簡各類資料的統計方法，及其結果的意義；第二部份闡述推論統計的基本概念與原理，主要內容為假設考驗與估計的理論基礎及應用。藉由教材的循序結構，配合例題的講解實作，使學生能熟悉處理資料時的程序，對於資料分析結果能正確解釋其意義，並培養科學態度與邏輯思考能力。	Objectives	This course includes two parts. The first part covers whole area of descriptive statistics. The main content is about statistical methods often used in simplifying different kinds of data, and the meaning of their results. The second part explains basic concepts and principles of inferential statistics. The main content is about theoretical foundation and application of hypothesis testing and estimation. Through the highly-organized teaching materials, along with the example explanations and practice, students should be familiar with the process of data analysis, and explain the meaning of the results correctly.
教材	1.林清山：心理與教育統計學。台北：東華書局。 2.相關補充資料。	Teaching Materials	1.Lecture; 2.Example demonstration; 3.Class practice; 4.Review exercise and discussion
成績評量方式	1.出席與課堂討論10%。 2.作業30%。 3.期中考試30%。 4.期末考試30%。	Grading	1.Class attendance and discussion. 10% 2.Assignments. 30% 3. Midterm exam. 30%; 4.Final exam. 30%
教師網頁	-		
教學內容	本課程以闡述推論統計的基本原理，及行為科學研究的實際應用為主要內容，強調統計推論的理論基礎，並針對不同性質的資料與研究設計，選擇適當的統計方法。授課重點包括相關與迴歸分析；概率與統計推論的原理；比例、相關及變異數的推論；不同因子的變異數分析與事後比較；共變數分析等。	Syllabus	This course is designed to cover basic principles of inferential statistics and practical application for the research of behavioral science. The theoretical bases of statistical inference, and appropriate statistical methods for different data and research designs are the most emphasized. The main topics include correlation and regression analysis; probability and principles of statistical inference; inferences about proportions, correlation coefficients, and variances; analysis of variance for different factors and multiple comparisons; analysis of covariance.

尊重智慧財產權，請勿非法影印。