朝陽科技大學 096學年度第1學期教學大綱
Applied Statistics 應用統計

當期課號	7309	Course Number	7309
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，主要內容爲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，主要內容爲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 maim 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	
成績評量方式	1.出席與課堂討論10%。 2.作業30%。 3.隨堂小考40%。 4.期末考試20%。	Grading	1.Class attendance and discussion. 10% 2.Assignments. 30% 3.Quiz. 40%; 4.Final exam. 20%
教師網頁			
教學內容	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，主要內容爲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，主要內容爲假設考驗與估計的理論基礎及應用。授課重點包括圖表的整理與摘要、集中與變異量數的涵義及其關係、常態分配與標準分數、相關與迴歸、抽樣分配的原理、假設考驗的步驟、以及信賴區間的估計等。	Syllabus	This course includes two parts. The first part covers whole area of descriptive statistics. The maim 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. The main topics include organizing and summarizing information with tables and graphs, the meaning of measures of central tendency and variability as well as their relationship, normal distribution and standard scores, correlation and regression, principles of sampling distribution, steps of hypothesis testing, and estimation of confidence interval.