# 朝陽科技大學 098學年度第2學期教學大綱
# Statistics 統計學

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| **當期課號** | 3782 | **Course Number** | 3782 |
| **授課教師** | 蕭文高 | **Instructor** | HSIAO,WEN KAO |
| **中文課名** | 統計學 | **Course Name** | Statistics |
| **開課單位** | 老人服務事業管理系(四進)二A | **Department** | |
| **修習別** | 必修 | **Required/Elective** | Required |
| **學分數** | 2 | **Credits** | 2 |
| **課程目標** | 本課程旨在使學生熟悉統計基本概念、原理及技巧,使其能對相關資料作組織、彙整、衡量並根據資料所得的結果加以評估及推論以幫助吾人作決策,一學年課程包括1. 統計學的意義與應用 2. 資料的類型 3. 機率的基本概念 4. 敘述統計的種類、計算與應用5.常用的機率分配模型 6. 抽樣分配與其應用 7. 估計的觀念與介紹 8. 假設檢定的介紹與其應用9.卡方檢定 10. 變異數分析 11.相關與簡單線性迴歸分析。 | **Objectives** | The purpose of this course is to acquaint the students with the statistical concepts,fundamentals and techniques needed to organize,measure and evaluate data that may then be used to support people to make better decisions in the face of uncertainty.Topics include:1. The meaning and application of statistics 2. Type of data 3. Basic principle of probability 4. Introduction of descriptive statistics and its applications5.Discrete and continuous probability 6. Sampling distribution and its application 7. Introduction and concept of estimation 8. Hypothesis testing 9.Chi-square testing 10.Analysis of variance 11.Correlation and simple linear regression analysis |
| **教材** | 1.史麗珠、林莉華編譯(2004)。統計學 - 社會與健康科學研究。台北：學富出版社。<br>2.邱皓政（2008）。量化研究與統計分析(基礎版)。台北：五南。 | **Teaching Materials** | Argyrous, G.（2000）. Statistics for Social & Health Research. Sage. |
| **成績評量方式** | 課堂作業 20%<br>期中考 30%<br>期末考 30%<br>出席 20% | **Grading** | Homework 20%<br>Midterm Exam30%<br>Final Exam30%<br>Participation 20% |
| **教師網頁** | _ | | |
| **教學內容** | 本課程進行方式包括(1)教師講授基本概念 (2)學生課堂練習與作業 (3) 期中考與期末考. 教學內容包括(1)描述統計：次數分配、圖表呈現、集中以及離散量數的測量。(2)基本的機率概念。(3)推論統計：相關係數、卡方檢定、變異數分析等。 | **Syllabus** | The instructor will illustrate the basic concepts of social statistics. Students are expected to participate in inclass exercises and complete homework. The course contents include:(1)Descriptive statistics: frequency distribution, graphic presentation, measure of central tendency and dispersion.(2)Basic probability concepts.(3) Inferential statistics: correlations coefficients, chi-square test, ANOVA etc. |

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