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②图玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	心理統計(上)			學年/學期 Academic Year/Semester		107/1			
課程名稱(英文) Course Name in English	Psychological Statistics(I)								
科目代碼 Course Code	CPB0030	系級 Department 學一 & Year		開課單位 Course-Offering Department	諮商與臨床心理學系				
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		3.0/3.0					
授課教師 Instructor	/林慧菁								
先修課程 Prerequisite									

課程描述 Course Description

This course provides students with an introduction to the science of making sense out of numerical data. Knowledge of statistics provides statistical literacy that enables people to understand and make sensible judgments based on the analysis of numerical information. This course is designed to teach students how to apply statistical concepts and interpret the results of a variety of statistical techniques from both descriptive and inferential statistics. The major contents covered include measures of central tendency and variability, probability, distributions of sample means, estimation and confidence intervals, and hypothesis testing concerning means.

課程目標 Course Objectives

To allow students to become more informed persons who can critically evaluate claims that are made in scientific (and less formal) settings.

To develop an appreciation for the conceptual bases that support statistical evaluation.

To learn how to interpret and perform several fundamental statistical procedures, as well as to evaluate situations and decide which procedures are appropriate.

To gain enough knowledge of basic statistical procedures to enable students to apply it to more advanced topics that they will study later in their career.

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

授課進度表 Teaching Schedule & Content 週次Week 內容 Subject/Topics 備註Remarks 1 Brief introduction: Introduction to statistics Chl. Variables, Data structure, Populations and Sample, Research 2 Methods, Measurement (sec1-2) Chl. Variables, Data structure, Populations and Sample, Research Methods, Measurement (sec1-2) 3 Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts 4 Ch3. Central tendency: selecting a measure and shape of the distribution Ch3. Central tendency: selecting a measure and shape of the 5 distribution 10/10 no class Ch4. Variability: standard deviation, variance Ch4. Variability: standard deviation, variance 6 Ch4. Variability: unbiased statistic and more

7	Ch5. z-Scores: location of scores and standardized distributions					
8	Ch6. Probability: Binomial and normal distributions Midterm review					
9	期中考試週 Midterm Exam					
10	Exam review Ch7. Probability and Samples: the distribution of sample means					
11	Ch7. Probability and Samples: the distribution of sample means and					
12	Ch8. Making inference: Hypothesis testing					
13	Ch9. Introduction to t-distribution and t statistic					
14	Ch9. Hypothesis testing about one mean Ch10. Testing difference between two independent means					
15	Ch10. Testing difference between two independent means					
16	Ch11. Testing two related means and estimation					
17	Ch11. Testing two related means and estimation Course Review and question answering					
18	18 期末考試週 Final Exam					
	教學策略 Teaching Strategies					
✓ 課堂講授 Lecture ✓ 分組討論Group Discussion ● 參觀實習 Field Trip 其他Miscellaneous:						
	教學創新自評Teaching Self-Evaluation					
創新教學(Innovative Teaching)					
問題導向學習(PBL) 團體合作學習(TBL) 解決導向學習(SBL)						
■ 翻轉教室 Flipped Classroom						
社會責任(Social Responsibility)						
□ 在地實踐Community Practice □ 產學合作 Industy-Academia Cooperation						
跨域合作(Transdisciplinary Projects)						
□ 跨界教學Transdisciplinary Teaching □ 跨院系教學Inter-collegiate Teaching						
□ 業師合授 Courses Co-taught with Industry Practitioners						
其它 othe:	r:					

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例 Percentage	多元評量方式 Assessments							
Items		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	10%	>	~						
期中考成績 Midterm Exam	30%	>							
期末考成績 Final Exam	30%	>							
作業成績 Homework and/or Assignments	30%	~	~						
其他 Miscellaneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Gravetter, Frederick J and Larry B. Wallnau, Statistics for the Behavioral Sciences, Cengage Learning India; 10th edition (2015)

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

http://faculty.ndhu.edu.tw/~hclin/index.html

其他補充說明(Supplemental instructions)