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# ②图玄束華大學

# 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		104/1	
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 Brief introduction: Introduction to statistics: Variables, Data 1 structure, Populations and Sample(chapter 1) Variables, Data structure, Populations and Sample, Research Methods, Measurement (chapter 1) 2 Frequency distribution, percentiles and percentile ranks, data distribution charts (chapter 2 3 Central tendency and variability, Chap. 3 & Score transformation 4 Chap 5 Probability I: Binomial and normal distributions 5 Probability II: Binomial and normal distributions 6 Chap 6 Sampling distribution 7 Chap 7 8 Midterm review

9	期中考試週 Midterm Exam									
10	Exam review									
11	Correlation Chap 1									
12	Making inference: Hypothesis testing Chap 8									
13	Introduction to t-distribution and t statistic Chap 9									
14	Hypothesis testing about one mean Chap 9									
15	Testing difference between two independent means Chap 10									
16	Testing two related means and estimation Chaps 11 and 12									
17	Course Review and question answering									
18	期末考試週 Final Exam									
	教學策略 Teaching Strategies									
課堂講	課堂講授 Lecture 分組討論Group Discussion 參觀實習 Field Trip									
其他Miscellaneous:										
學期成績計算及多元評量方式 Grading & Assessments										
	分項目	配分比例	油压	實作	口頭	多元評量	量方式 A			
	Items	Percentage	測驗會考	觀察	發表	研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含 General Per (Attendance	formance	20%	<b>✓</b>	~						
期中考成績	Midterm Exam	40%	<b>✓</b>							
期末考成績	Final Exam	40%	<b>✓</b>							
作業成績 Ho Assignments	omework and/or									
其他 Miscel (	laneous									
評量方式補充說明 Grading & Assessments Supplemental instructions										
Talling a necessiment eappromental 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; 9th edition (2012)										
課程教材網址(教師個人網址請列在本校內之網址) Teaching Aids & Teacher's Website (Personal website can be listed here.)										
http://faculty.ndhu.edu.tw/~!hclin/index.html										

其他補充說明(Supplemental	l instructions)