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②國玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	統計學(一)			學年/學期 Academic Year/Se	105/1		
課程名稱(英文) Course Name in English	Statistics(I)						
科目代碼 Course Code	CPB0030	系級 Department & Year	學一	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 2 no class (typhoon) Ch1. Variables, Data structure, Populations and Sample, Research 3 Methods, Measurement (sec1-2) 4 no class (typhoon) Chl. Variables, Data structure, Populations and Sample, Research Methods, Measurement 5 Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts 6 Ch3. Central tendency: selecting a measure and shape of the distribution Ch4. Variability: standard deviation, variance 7 Ch4. Variability: unbiased statistic and more Ch5. z-Scores: location of scores and standardized distributions

8	Ch5. z-Scores: location of scores and standardized distributions 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. Probabilit more Ch8. Making inf	-			ition of	sample	means	and		
12	Ch8. Making inf	erence: Hypot	hesis	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	期末考試週 Final Exam									
		教	學策	略 Te	aching (Strategi	es			
	授 Lecture scellaneous:	✓	分組討	論Group	Discus	sion	參	觀實習	Field Tri	р
		學期成績計算	草及多元	評量方式	弋 Gradi	ng & As	sessmen	ts		
									證照	其他
平時成績(含 General Per (Attendance	formance	40%	會考 ✓	觀察 ✓	發表	研究	展演	評量	檢定	
期中考成績	Midterm Exam	30%	~							
期末考成績	Final Exam	30%	>							
作業成績 Ho Assignments	omework and/or s									
其他 Miscel (l laneous _)									
		Grading & A		-	補充說明 oplement		ruction	s		

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)

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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 instructions)