


國立東華大學
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/Semester	105/1	
課程名稱(英文) Course Name in English	Statistics(I)				
科目代碼 Course Code	CP__B0030	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					
<p>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.</p>					
課程目標 Course Objectives					
<p>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.</p>					
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)	
3	Ch1. Variables, Data structure, Populations and Sample, Research Methods, Measurement (sec1-2)				
4				no class (typhoon)	
5	Ch1. Variables, Data structure, Populations and Sample, Research Methods, Measurement Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts				
6	Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts Ch3. Central tendency: selecting a measure and shape of the distribution				
7	Ch4. Variability: standard deviation, variance 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. Probability and Samples: the distribution of sample means and more Ch8. Making inference: Hypothesis testing	
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	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:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							其他
		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	
平時成績 General Performance	40%	✓	✓						
期中考成績 Midterm Exam	30%	✓							
期末考成績 Final Exam	30%	✓							
作業成績 Homework and/or Assignments									
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 (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)