國立東華大學

教學計劃表　Syllabus

課程名稱(中文) Course Name in Chinese	心理統計（上）AB			學年/學期 Academic Year/Semester	111/1
課程名稱(英文) Course Name in English	Psychological Statistics(Ⅰ)				
科目代碼 Course Code	CP__1121AB	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

一、使同學熟悉有關心理學常用之統計基本知識與原理原則。
二、使同學具有解釋心理學研究報告及使用統計在心理學應用之的能力

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	Ch1. Variables, Data structure, Populations and Sample, Research Methods, Measurement (sec1-2)	
3	Ch1. Variables, Data structure, Populations and Sample, Research Methods, Measurement (sec1-2) Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts	
4	Ch2. Frequency distribution, percentiles and percentile ranks, data distribution charts Ch3. Central tendency: selecting a measure and shape of the distribution	
5	Ch3. Central tendency: selecting a measure and shape of the distribution Ch4. Variability: standard deviation, variance	
6	Ch4. Variability: standard deviation, variance 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 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	Final Exam	
18	Review	

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 ☐ 磨課師 Moocs

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 other: _____

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							
		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/
and E-Learning (E學苑)

其他補充說明 (Supplemental instructions)