


國立東華大學
教學計劃表 Syllabus

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| 課程名稱(中文) Course Name in Chinese | 心理統計(上) | | 學年/學期 Academic Year/Semester | 109/1 | |
| 課程名稱(英文) Course Name in English | Psychological 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 | Ch1. Variables, Data structure, Populations and Sample, Research Methods, Measurement (secl-2) | | | | |
| 3 | Ch1. Variables, Data structure, Populations and Sample, Research Methods, Measurement (secl-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 | | | | |

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| 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 | 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:

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 Industry-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/index.html>

其他補充說明 (Supplemental instructions)