



教學計劃表 Syllabus

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| 課程名稱(中文) Course Name in Chinese | 統計學(一) | | 學年/學期 Academic Year/Semester | 112/1 |
| 課程名稱(英文) Course Name in English | Statistics(I) | | | |
| 科目代碼 Course Code | EC_21900 | 系級 Department & Year | 學一 | 開課單位 Course-Offering Department |
| | | | | 經濟學系 |
| 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 | | | | |
| 提供經濟分析基礎的初級統計學的機率、抽樣、假設檢定、變異數分析、相關分析、迴歸分析、非參數方法等計量的理論與應用。 | | | | |
| 課程目標 Course Objectives | | | | |
| 介紹基礎的統計理論與方法，並教導學生如何將統計概念運用於經濟及財務之課題上，使學生具備分析資料的能力。 | | | | |
| 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 | 09/11 開學週 簡介本課程 | | | |
| 2 | 09/18 第一堂課: ch 1 what is statistics? | | | |
| 3 | 09/25 ch 2 describing data: frequency tables, frequency distributions, and graphic presentation | | | |
| 4 | 10/02 ch 3 describing data: numerical measures | | | |
| 5 | 10/09 調整放假 | | | 調整放假 |
| 6 | 10/16 ch 4 describing data: displaying and exploring data | | | |
| 7 | 10/23 ch 5 a survey of probability concepts | | | |
| 8 | 10/30 ch 6 discrete probability distributions | | | |
| 9 | 11/06 期中考試 Midterm Exa | | | |
| 10 | 11/13 ch 7 continuous probability distributions | | | |
| 11 | 11/20 ch 8 sampling methods and the central limit theorem | | | |
| 12 | 11/27 ch 8-9 | | | |
| 13 | 12/04 ch 9 oestimation and confidence intervals | | | |
| 14 | 12/11 ch 10 one-sample tests of hypothesis | | | |
| 15 | 12/18 ch 10-11 | | | |
| 16 | 12/25 ch 11 two-sample tests of hypothesis | | | |

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| 17 | 01/01 放假 | 放假 |
| 18 | 01/08 期末考試 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 | 20% | ✓ | ✓ | | | | | | |
| 期中考成績 Midterm Exam | 40% | ✓ | | | | | | | |
| 期末考成績 Final Exam | 40% | ✓ | | | | | | | |
| 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.)

Douglas A Lind, William G. Marchal, and Samuel A. Wathen, Statistical Techniques in Business & Economics

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)