

個別課程英文授課大綱

表單編號：QP-T02-07-11

保存年限：10 年

課程名稱 Course Title	(中文) 統計學 (英文) Statistics		
授課教師 Instructor	洪英超	開課單位 Departments	統計系
學分數 Credit(s)	3/3	修課對象 Target Students	全校
課程目標 Course Objectives	The objective of this course is to provide the students with the essential and fundamental concepts of elementary statistics. At the end of this course, the students should be able to define the real problem, to use graphical and numerical summaries, to apply standard statistical inference procedures, and to draw conclusions from statistical analyses.		
課程大綱 Course Description	The topics include: descriptive statistics, probability theory, sampling and distributions, estimation and confidence intervals, testing hypotheses.		
上課進度 Weekly Course Schedule	<ol style="list-style-type: none"> 1. Introduction to Statistics (Chapter 1) 2. Charts and Graphs (Chapter 2) 3. Describing Data: Numerical Measures, Displaying/Exploring Data (Chapter 3, 4) 4. A Survey of Probability Concepts (Chapter 5) 5. A Survey of Probability Concepts (Chapter 5) 6. Discrete probability distributions (Chapter 6) 7. Discrete probability distributions (Chapter 6) 8. Continuous probability distributions (Chapter 7) 9. Continuous probability distributions (Chapter 7) 10. Midterm Exam 11. Sampling methods and Central Limit Theorem (Chapter 8) 12. Sampling methods and Central Limit Theorem (Chapter 8) 13. Estimation and confidence intervals (Chapter 9) 14. Estimation and confidence intervals (Chapter 9) 15. One-Sample tests of hypothesis (Chapter 10) 16. One-Sample tests of hypothesis (Chapter 10) 17. Review 18. Final Exam 		
教學方式 Instructional Method	Lecture and Lab		
課程要求 Course Requirements	NA		
評量方式 Evaluation	<ol style="list-style-type: none"> 1. Midterm examination ----- 30 % 2. Final examination ----- 30 % 3. Homework ----- 30 % 		

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	4. Attendance ----- 10 % Total <u>100 %</u>
教材及參考書目 Textbooks & Suggested Materials	Statistical Techniques in Business and Economics (14th ed. McGraw Hill 2009) by Douglas A. Lind William G. Marchal and Samuel A. Wathen
課程相關 連結網址 Course Website	http://wm3.nccu.edu.tw
備註 Remarks	