

課程資訊 (Course Information)					
科號 Course Number	10820KHCT500203	學分 Credit	3	人數限制 Class Size	20
中文名稱 Course Title	研究方法-量化研究				
英文名稱 Course English Title	Quantitative Research Methods				
任課教師 Instructor	鄭國泰(CHENG, KUO-TAI) more information				
上課時間 Time	R2R3R4	上課教室 Room	Nanda南大1305		
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此科目對應之系 所課程規畫所欲 培養之核心能力 Core capability to be cultivated by this course					
課程簡述 (Brief course description)					
<p>This course introduces the basic concepts of data analysis and statistical computing, both increasingly used in the social sciences and the humanities. The emphasis is on the practical application of quantitative reasoning, visualisation, and data analysis. The goal is to provide students pragmatic tools for assessing statistical claims and conducting their own basic statistical analyses. Topics covered include basic descriptive measures, measures of association, sampling and sample size estimation, and simple linear regression. Assignments are based on real-world data and problems in a wide range of fields in the social sciences and humanities, including public policy, psychology, sociology, education, and public administration.</p>					
課程大綱 (Syllabus)					
<p>Course keywords: Statistical Analysis, Descriptive Statistics, Census Data, Normal Distribution, Hypothesis Testing, T-statistics</p> <ol style="list-style-type: none"> 1. Course Overview; Social Research Required reading: Earl, Babbie. Ch. 1, 2, 3 and 5 2. Statistical Analysis – I Descriptive Statistics 3. Statistical Analysis - II; Overview of Census Data 4. Normal Distribution; Hypothesis Testing; T-statistics 5. Tests between Means of Different Groups; Tests Between Means of Related Groups; ANOVA 6. Factorial ANOVA; 7. Chi-squared tests; Correlation 8. Survey Research; Lab Time for Term Project 9. Mid-Term Exam (take home) 10. Research Design – I; Lab Time for Term Project 11. Research Design – II; Computer Graphics; Lab Time for Term Project 12. Research Design – III; Lab Time for Term Project; 13. Term Project: Term Project Analysis Report Due 14. Take Home Exercise Set Due 15. Term Project Analysis Report Graded 16. Revised Term Project Analysis Report Due 17. Lab Time for Term Project 18. Final-Term Exam Due 					