

## 105/學年度商學院英文授課大綱

<p>課程名稱 Course Title <input type="checkbox"/>模組 <input type="checkbox"/>個別</p>	(中文) 統計學
	(英文) Statistics
<p>課程目標 Course Objectives</p>	<p>The objective of this course is to provide the students with the essential and fundamental concepts of elementary statistics. The topics include descriptive statistics, probability, sampling, design of experiments, and statistical inferences. 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 analysis. In addition to materials in the textbook, the students may be required to use the computer lab for some class activities.</p>
<p>課程大綱 Course Description</p>	<p>Introduction to statistics: Summarize data Basic probability: Discrete and continuous probability distributions Estimation and testing: -Sampling methods and sampling distributions -Estimation methods and confidence intervals -Hypotheses testing **All course materials/information are available on the e-learning website <a href="http://isunmooc.nccu.edu.tw/">http://isunmooc.nccu.edu.tw/</a></p>
<p>上課進度 Weekly Course Schedule</p>	<p>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 Review 7 Midterm Exam I 8 Discrete probability distributions (Chapter 6) 9 Continuous probability distributions (Chapter 7) 10 Sampling methods and Central Limit Theorem (Chapter 8), 11 Estimation and confidence intervals (Chapter 9) 12 One-Sample tests of hypothesis (Chapter 10) 13 Review 14 Midterm Exam II 15 Lab - R programming 16 Lab - R programming 17 Lab - R programming 18 Final Project</p>

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教學方式 Instructional Method	lecture and lab session
課程要求 Course Requirements	Attend all weekly class meetings and lab session. Do the homework.
評量方式 Evaluation	Midterm I exam: 35% Midterm II exam: 35% Final Project: 30%
教材及參考書目 Textbooks & Suggested Materials	Statistical Techniques in Business and Economics by Douglas A. Lind William G. Marchal and Samuel A. Wathen (the latest version).
課程相關 連結網址 Course Website	<a href="http://isunmooc.nccu.edu.tw/login.php">http://isunmooc.nccu.edu.tw/login.php</a>
備註 Remarks	

申請教師簽章：

周淑娟

開課單位主管簽章：

