



課 綱 Course Outline  
企業管理學系國際組

中文課程名稱 Course Name in Chinese	應用統計分析				
英文課程名稱 Course Name in English	Applied Statistical Analysis				
科目代碼 Course Code	BM__M0170	班 別 Degree	碩士班 Master' s		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
Establish students' abilities for the knowledge and understanding of statistics and applications in the management domain.					
系教育目標 Dept.'s Education Objectives					
1	培養具國際觀之企業經理人。 Cultivating professional managers equipped with international perspective				
2	培養具資訊科技能力之專業經理人。 Cultivating professional managers equipped with IT management proficiency				
3	培養具人文素養之專業經理人。 Cultivating equipped with human culture professional managers				
4	培養理論與實務並重之專業經理人。 Cultivating business professionals with both theoretic expertise and practical experience				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	具備企業管理理論的核心專業知識。 Core knowledge of theories related to business management			●	
B	具備邏輯思考與企業經營管理問題解決的能力。 Capability of logical thinking and problem solving to business management			●	
C	具備領導、溝通協調與團隊運作的能力。 Capability of leadership, communication, and collaboration			○	

D	具備國際觀以及外語溝通的能力。 Global perspective and capability of communication in foreign languages	●
E	具備資訊科技之妥善運用能力，以培育企業經營之運籌帷幄。 Capability of IT applications for business operations	●
F	具備企業倫理以奠定經營觀念之認知與堅持。 Having recognition and persistence of business ethics	○

圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

### 課程大綱 Course Outline

Data and Statistics, Descriptive Statistics I  
Descriptive Statistics I  
Discrete Probability Distribution  
Continuous Probability Distribution  
Sampling and Sampling Distribution  
Interval Estimation  
Hypothesis Testing  
Statistical Inference  
Inference about Population Variances  
Goodness of Fit Test  
ANOVA & DOE  
Linear Regression  
Regression Analysis: Model Building

資源需求評估（師資專長之聘任、儀器設備的配合．．．等）  
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

Instructor should have good background in the statistics and data analysis. SPSS software, PC Lab. and projector are required for this course.

### 課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods

This course will be held through lecture and group discussion. Students are asked to present the journal paper and case studies in the textbook and perform term project

### 其他 Miscellaneous

Miscellaneous  
Anderson, D. R., Sweeney, D. J. and Williams, T. A., (2006), Statistics for Business and Economics, 9th Ed., South-Western College Publishing, Cincinnati, Ohio. ISBN 986-7497-82-1 (04) 2708-878