



## 課 綱 Course Outline

### 管理學院管理科學與財金國際學士學位學程學士班

中文課程名稱 Course Name in Chinese	管理統計學				
英文課程名稱 Course Name in English	Management Statistics				
科目代碼 Course Code	MSF_10350	班 別 Degree	學士班 Bachelor' s		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite	Statistics (II)				
課程目標 Course Objectives					
Enhance students' ability for the knowledge and understanding of statistical skill and application in the management domain.					
系教育目標 Dept.' s Education Objectives					
1	培育具備良好數量分析能力之管理人才。 Cultivating management professionals with outstanding ability in quantitative analysis.				
2	培育具備財務金融專業知識之人才。 Cultivating professionals with finance-specific knowledge.				
3	培育具備國際視野與外語溝通能力之人才。 Cultivating professionals with a global vision and the ability in foreign-language communication.				
4	培育具備決策分析與問題解決之技能的管理人才。 Cultivating management professionals with knowledge and skills in decision analysis and problem solving.				
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	能以數量方法分析與解決問題。 Using quantitative methods to analyze and solve problems.				●
B	具備財務金融領域之分析能力。 Equipped with the ability to analyze finance.				

C	能善用資訊科技進行資料分析、統整與呈現。 Using information technology to analyze, integrate, and present data.	●
D	具備國際視野與專業外語能力。 Equipped with a global vision and specialized foreign language proficiency.	○
E	具備掌握財經時事議題及研判財經趨勢之能力。 Equipped with the ability to master topics of finance and economy, and other current news, and to diagnose financial and economic tendencies.	
F	具備一般管理的基礎知識。 Equipped with basic knowledge of management in general.	○

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

課程大綱  
Course Outline

1. Data and Statistics/Descriptive Statistics/Case Study
2. Continuous Probability/Case Study for Normal Distribution
3. Interval Estimation/Case Study for Interval Estimation
4. Hypothesis Testing/Case Study for Hypothesis Testing
5. Inference for Two Population/Case Study for Inference for Two Population
6. Inference for Variance/Case Study for Inference for Variance
7. Test of Goodness of Fit/Case Study Test for Goodness of Fit
8. Analysis of Variance/Case Study for Analysis of Variance
9. Simple Regression/Case Study for Simple Regression
10. Multiple Regression/Case Study for Multiple Regression
11. Regression Model Building/Case Study for Regression 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.)

1. Instructor should have the background of statistical specialty.
2. NB and Overhead Projector are required
3. SPSS software
4. PC Lab.

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

It is highly recommend students to pre-study the textbook before every class. Instructor will demonstrate the statistical software during the class. It will be much easier for students to understand the meaning of course materials.

Grading Criteria

- |                 |     |
|-----------------|-----|
| 1. Case Study   | 25% |
| 2. Midterm      | 25% |
| 3. Final        | 25% |
| 4. Term Project | 25% |

其他  
Miscellaneous

1. Anderson, D. R., Sweeney, D. J. and Williams, T. A., (2006), Statistics for Business and Economics, 11th Ed., South-Western College Publishing, Cincinnati, Ohio. ISBN 986-7497-82-1 (04) 2708-8787