



## 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	微積分(二)				
英文課程名稱 Course Name in English	Calculus(II)				
科目代碼 Course Code	MSF_10010	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					
課程目標 Course Objectives					
The purpose is to facilitate the students with tools in higher mathematics for later use in finance courses.					
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

The course will contain all fundamentals in calculus. This includes:

1. Convergence of sequences and series
2. Basic vector analysis.
3. Functions of several variables
4. Applications of functions of several variables.
5. Multiple integrals and applications.

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.)

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

Lecture, tutor.

其他  
Miscellaneous