

管院學士班課程大綱

BA/BBA Program Syllabus

2023.09.20 修訂

系所 Department	財務金融學系 Finance	必修/選修 compulsory/elective	必修 Compulsory
課程名稱 Course title	統計學（一）	學分數 Credit(s)	3
課號 Course Code	5152020_02	全英文授課 English Taught (EMI)	否(No)
學年/學期 academic year/Semester	115/01	上課地點 Classroom	管理學院 101
講授教師 Instructor	葉宗瑋	上課時間 Time	一 7,8,9
教師辦公室&諮詢時間 Instructor office & office hour		教師聯絡資訊 Instructor Contact	Phone: Email:
助教 Teaching Assistant		助教 聯絡資訊 TA contact	Email:
先修課程 Pre-requisite courses	微積分（一）、微積分（二）		
學習目標 Learning Objective	Upon completing this course, students will be able to: ● summarize and present data with appropriate graphical and numerical tools, and read such summaries critically; ● use the standard discrete and continuous distributions and know when each applies; ● explain why sample statistics are random variables and apply the Central Limit Theorem to quantify estimation error.		
課程概述 Course Descriptions	This course focuses on building the probabilistic foundation of statistical inference: describing data, probability, random variables and their distributions, and the sampling distributions that connect data to populations.		
對應 AOL 職能素養(AOL Competency)			
職能素養 2(Competency 2): 創新思考 Creative Thinking		職能素養 3(Competency 3): 問題解決能力 Problem Solving Skills	
課程類別 Course Attributes	☐ 人文關懷課程 (Humanities Caring) ☐ 競賽專題課程 (Competition) ☐ 問題導向課程 (Problem-solving) ☐ 專題導向課程 (Project-based) ☐ 實作課程 (Practice-based) ☐ 總整課程 (Capstone)		
教材編選 Teaching materials	☒ 自製簡報 (self-made PPTs) ☐ 課程講義 (Teaching Notes) ☒ 自編教科書 (self-made textbooks) ☐ 教學程式 (programming) ☐ 自製教學影片 (self-made video) ☐ 其他 (Others)		
教學資源 Teaching Resources	☐ 課程網站 (Website) ☐ 實習網站 (Intern Web)		

	☐ 教材電子檔供下載(Downloadable Files)			
教科書/參考書 Textbooks/References	Textbooks: Teacher-developed materials Reference: Statistics for Business and Economics, 14e (or 15e), Anderson , Sweeney, Williams, Camm, Cochran 滄海書局			
評量方式(請填百分比) Assessment	課 堂 參 與 Participation	10%	個案討論 Case study	%
	作業 Homework	20%	專題 Project	%
	小考 Quiz	0%	其他 1 other ()	%
	期中考 Midterm	35%	其他 2 other ()	%
	期末考 Final	35%	其他 3 other ()	%
	報告 Presentation	0%	其他 4 other ()	%
其他說明 Other description				

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課程規劃表 Course Schedule

週次 week	日期 Date	內容 Description	教材章節 Textbook	其他說明 Remark
1.	9/7	Introduction to Statistics		
2.	9/14	Describing Data: Graphical and Numerical		
3.	9/21	Describing Data (conclusion); Probability		
4.	9/28	教師節 (放假)		
5.	10/5	Probability		
6.	10/12	Random Variables and Distributions		
7.	10/19	Random Variables: Joint Distributions, Covariance, and Linear Combinations		
8.	10/26	光復節 (放假)		
9.	11/2	Midterm Exam		
10.	11/9	Discrete Random Variables		
11.	11/16	Discrete Random Variables		
12.	11/23	Continuous Random Variables		
13.	11/30	Continuous Random Variables		
14.	12/7	Sampling and Sampling Distributions		
15.	12/14	Sampling and Sampling Distributions		
16.	12/21	Final Exam		
17.				
18.				