

表一

東吳大學商學院財務工程與精算數學系學士班必、選修科目表

Department of Financial Engineering and Actuarial Mathematics, School of Business, Soochow University
Undergraduate Curriculum

(適用114學年度一年級入學新生)

(For 2025FALL INCOMING STUDENTS)

科目名稱 Course Titles	選別 Required / Elective	學分 Credits	學年 Academic Year								備註 Remarks		
			第一學年 First Year		第二學年 Second Year		第三學年 Third Year		第四學年 Fourth Year				
			上 Fall	下 Spring	上 Fall	下 Spring	上 Fall	下 Spring	上 Fall	下 Spring			
Common Required Courses 校訂共同必修	國文 CHINESE	必 Required	4	2	2								
	外文(英、日、德、韓文) FOREIGN LANGUAGE (ENGLISH, JAPANESE, GERMAN, KOREAN)	必 Required	8	2	2								詳附註1說明。 Please refer to Note 1. for details.
	生命關懷 LIFE CONCERNS	必 Required	1	1	0								各學系依「共通科目各領域開設時段表」分別安排於上或下學期修讀。 The “Common and General Required Courses Offering Schedule” serves as the basis for all departments to offer courses by semester.
	思維方法 PRINCIPLES OF REASONING	必 Required	1	1	0								
	職涯錨定 CAREER ANCHOR	必 Required	1					1	0				
	人工智慧跨域應用 MULTIDISCIPLINARY TRENDS IN ARTIFICIAL INTELLIGENCE	必 Required	1					1	0				
	數位自主學習 INDEPENDENT ONLINE LEARNING	必 Required	2	修業期限內配合選課時間由學生自主選課修讀 Students can choose courses based on the course schedule within the permitted study years.									
	通識課程 GENERAL EDUCATION COURSES	必 Required	10	2	2	2	2	2					
體育 PHYSICAL EDUCATION	必 Required	0	0	0	0	0							
Graduation Requirements 畢業標準	外文能力 FOREIGN LANGUAGE PROFICIENCY	必 Required	0	學生最遲在延長修業年限內必須通過「外文」和「資訊」等兩項畢業標準能力檢核，未通過者不得畢業。 Students must meet the graduation requirements of “FOREIGN LANGUAGE PROFICIENCY” and “INFORMATION COMPETENCE” within the extended years of study. Failure to meet these requirements will prevent them from graduating.									
	資訊能力 INFORMATION COMPETENCE	必 Required	0										
	美育活動 AESTHETIC EDUCATION & ACTIVITIES	必 Required	0	學生最遲在延長修業年限內至少需參與校內藝文活動4場次，未通過者不得畢業。 Students are required to attend at least four on-campus arts or cultural events within the extended years of study. Failure to meet these requirements will prevent them from graduating.									
Required Courses 系必修	經濟學(一) ECONOMICS (I)	必 Required	3	3	0								
	經濟學(二) ECONOMICS (II)	必 Required	3	0	3								
	微積分 CALCULUS	必 Required	8	4	4								
	會計學 ACCOUNTING	必 Required	6	3	3								
	線性代數 LINEAR ALGEBRA	必 Required	6	3	3								
	程式設計(一) COMPUTER PROGRAMMING (I)	必 Required	3	3	0								
	程式設計(二) COMPUTER PROGRAMMING (II)	必 Required	3	0	3								
	高等微積分(一) ADVANCED CALCULUS(I)	必 Required	3			3	0						微積分及格 Passed Calculus is prerequisite for Advanced Calculus.
	機率與統計(一) PROBABILITY AND STATISTICS (I)	必 Required	3			3	0						
	風險管理與保險(一) RISK MANAGEMENT AND INSURANCE (I)	必 Required	3			3	0						

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財務管理(一) FINANCIAL MANAGEMENT (I)	必 Required	3			3	0						
財務工程與精算數學概論 FUNDAMENTALS OF FINANCIAL ENGINEERING AND ACTUARIAL MATHEMATICS	必 Required	1			1	0						
機率與統計(二) PROBABILITY AND STATISTICS (II)	必 Required	3			0	3						機率與統計(一)及微積分(下)50分以上 Having more than 50 scores in Probability and Statistics (I) and Calculus~B are prerequisite for Probability and Statistics (II).
複利數學 MATHEMATICS OF COMPOUND INTEREST	必 Required	3			0	3						微積分(上)50分以上 Having more than 50 scores in Calculus~A is prerequisite for Mathematics of Compound Interest.
財務工程導論 FUNDAMENTALS OF FINANCIAL ENGINEERING	必 Required	3			0	3						
金融科技導論 FUNDAMENTALS OF FINANCIAL TECHNOLOGY	必 Required	3			0	3						
保險數學導論(一) FUNDAMENTALS OF ACTUARIAL MATHEMATICS (I)	必 Required	3						3	0			機率與統計(一)及複利數學50分以上 Having more than 50 scores in Probability and Statistics (I) and Mathematics of compound interest are prerequisite for Course syllabus for actuarial mathematics (I).
高等統計學 ADVANCED STATISTICS	必 Required	3						3	0			
作業研究(一) OPERATIONS RESEARCH(I)	必 Required	3						0	3			
C 程式語言 C++ PROGRAMMING LANGUAGE	選 Elective	3			3	0						
離散數學 DISCRETE MATHEMATICS	選 Elective	3			3	0						
高等微積分(二) ADVANCED CALCULUS(II)	選 Elective	3			0	3						高等微積分(一)及格 Passed Advanced Calculus (I) is prerequisite for Advanced Calculus (II)
風險管理與保險(二) RISK MANAGEMENT AND INSURANCE (II)	選 Elective	3			0	3						
財務管理(二) FINANCIAL MANAGEMENT (II)	選 Elective	3			0	3						
Java 程式設計 COMPUTER PROGRAMMING WITH JAVA	選 Elective	3			0	3						
網頁程式設計 WEB-PAGES PROGRAMMING	選 Elective	3						3	0			
資料結構 DATA STRUCTURE	選 Elective	3						3	0			

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選系	財務數學 FINANCIAL MATHEMATICS	選 Elective	3					3	0			
系選修 Electives	金融創新 FINANCIAL INNOVATION	選 Elective	3					3	0			
	複利專題 SEMINAR ON COMPOUND INTEREST	選 Elective	3					3	0			複利數學及格 Passed Mathematics of compound interest is prerequisite for Seminar of Compound Interest.
	富蘭克林講座-金融投資與 資產管理 FRANKLIN TEMPLETON INVESTMENTS LECTURES- FINANCIAL INVESTMENT AND ASSET MANAGEMENT	選 Elective	3					3	0			商學院開課，學系隨班 附讀 This course is offered by School of Business. The undergraduate in the Department of Financial Engineering and Actuarial Mathematics can take this course.
	資料庫管理系統 DATABASE MANAGEMENT SYSTEM	選 Elective	3					0	3			
	金融計算 FINANCIAL CALCULATION	選 Elective	3					0	3			
	數值分析 NUMERICAL ANALYSIS	選 Elective	3					0	3			
	迴歸分析 REGRESSION ANALYSIS	選 Elective	3					0	3			
	應用統計 APPLIED STATISTICS	選 Elective	3					0	3			
	保險數學導論(二) FUNDAMENTALS OF ACTUARIAL MATHEMATICS (II)	選 Elective	3					0	3			保險數學導論(一)及格 Passed Course syllabus for actuarial mathematics (I) is prerequisite for Course syllabus for actuarial mathematics (II).
	資料庫系統實作 Database Management Systems Practice	選 Elective	3					0	3			
	投資學 INVESTMENTS	選 Elective	3					0	3			
	社會保險與退休金規劃 SOCIAL INSURANCE AND PENSION PLANNING	選 Elective	3					0	3			
	金融資料採礦 FINANCIAL DATA MINING	選 Elective	3					0	3			
	統計推論(一) STATISTICAL INFERENCE (I)	選 Elective	3					0	3			
	統計推論(二) STATISTICAL INFERENCE(II)	選 Elective	3							3	0	
	數學專題-壽險數理 SEMINAR ON ACTUARIAL MATHEMATICS OF LIFE CONTINGENCIES	選 Elective	3							3	0	
財務風險管理 FINANCIAL RISK MANAGEMENT	選 Elective	3							3	0		

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企業資訊系統 BUSINESS INFORMATION SYSTEMS	選 Elective	3								3	0	
金融大數據 FINANCIAL BIG DATA	選 Elective	3								3	0	
作業研究(二) OPERATIONS RESEARCH(II)	選 Elective	3								3	0	
數理統計 MATHEMATICAL STATISTICS	選 Elective	3								3	0	
保險專題 SEMINAR ON INSURANCE PRACTICE	選 Elective	3								0	3	
固定收益證券 FIXED INCOME SECURITIES	選 Elective	3								0	3	
財務工程專題 SEMINAR ON FINANCIAL ENGINEERING	選 Elective	3								0	3	
財務時間序列分析 FINANCIAL TIME SERIES ANALYSIS	選 Elective	3								0	3	
存活分析 SURVIVAL ANALYSIS	選 Elective	3								0	3	
保險經營 INSURANCE MANAGEMENT	選 Elective	3								0	3	
金融科技與創新應用 FINANCIAL TECHNOLOGY AND INNOVATION OF APPLICATIONS	選 Elective	3								0	3	
其它經本系核可之科目 OTHER COURSES APPROVED BY THE DEPARTMENT	選 Elective											
畢業學分總計 Minimum Required Credits for Graduation	必修 Required	94	24	22	17	16	10	5	0	0		
	選修 Elective	34	0	0	2	2	6	6	9	9	至多承認外系16學分 A maximum of 16 credits taken in other departments can be counted as graduation credits.	
	共計 Total	128	24	22	19	18	16	11	9	9		

附註 Notes:

1. 外文共開設英、日、德、韓四種語文。大一新生可就四種語文任選一科修習。大二學生可就四種語文任選一科修習，外文(一)及(二)可選擇修習同一語文，亦可選擇修讀不同語文，但以不重複修讀為原則。外語學院學生不得修習主修語文之大一、大二外文課程。外籍生、僑生原則上不得修習母語或僑居地語文。

Foreign languages are offered in four languages: English, Japanese, German and Korean. Freshmen can choose one of the four languages to study. Sophomores can choose to study any one of the four languages. For Foreign Languages (1) and (2), they can choose to study the same language, or they can choose to study different languages, but the principle is not to repeat the study.

Students in the School of Foreign Languages and Cultures are not allowed to study Foreign Languages courses that students major. In principle, foreign students and overseas Chinese students are not allowed to study their mother tongue or the language of their place of residence.

2. 學士班入學新生最遲在延長修業年限內，必須通過「外文能力」、「資訊能力」檢核與「美育活動」三項畢業標準，請參考教務處通識教育中心網頁。

Bachelor's degree freshmen have to pass "FOREIGN PROFICIENCY", "INFORMATION CAPACITY" and "AESTHETIC EDUCATION ACTIVITIES GRADUATION STANDARD". For the explanation of Graduation Standards, please refer to the website of the General Education Center.

系主任簽章

院長簽章

年 月 日

年 月 日