

長庚大學 數位金融科技學系 大學部必修選科目表 (112學年度入學學生適用)
Course List of BS Program for Department of Digital Financial Technology at Chang Gung University
(Applicable to Newly-Admitted Students for the 2023 Academic Year)

必修 / Elective		科目名稱 Course Title	一(1st Year)		科目名稱 Course Title	二(2nd Year)		科目名稱 Course Title	三(3rd Year)		科目名稱 Course Title	四(4th Year)		
			上 Fall	下 Spring		上 Fall	下 Spring		上 Fall	下 Spring		上 Fall	下 Spring	
管院共構 Co- Construction Courses for College of Management	必修 Required	人工智慧語言與產業應用 AI Language and the Industrial Applications	3		統計學(1) Statistics(I)	3								
		會計學(1) Accounting(I)	3											
		經濟學(1) Economics(I)	3											
	選修 Elective	實用英文(1): 聽與說 Practical English: Listening & Speaking		2				平台策略 Platform Strategy		3				
實用英文(1): 閱讀與寫作 Practical English: Reading & Writing			2											
系必修 Department Required Courses		微積分 Calculus	3		財務數學 Financial Mathematics	3		金融資料探勘與機器學習 Financial Data Mining and Machine Learning	2		數位金融創新模式 Modes of Financial Innovations and Startups	2		
		企業概論 Business Essentials	2		資料結構 Data Structures	3		理財機器與保險科技 Robo Advisors and Insurance Technology	2		法選科技與風險管理 RegTech and Risk Management	2		
		金融科技導論 Introduction to FinTech	2		財務管理 Financial Management	3		金融數位轉型 Digital Transformation in Financial Industry	2		金融科技APP(2):專題 FinTech APP(II):Special Topic	3		
		會計學(2) Accounting(II)	3		貨幣與金融機構 Monetary and Financial Institutions	3		財務金融深度學習 Financial Deep Learning		2				
		經濟學(2) Economics(II)		3	資本市場與投資 Capital Market and Investment	3		金融數位行銷 Digital Marketing in Financial Industry		2				
		Python程式設計 Python Computer Programming		3	統計學(2) Statistics(II)		3	數位金融工作坊-數位支付 Digital Finance Workshop - Digital Payment		1				
								數位金融工作坊-監理沙盒 Digital Finance Workshop - Regulatory Sandbox		1				
								金融科技APP(1):開發 FinTech APP(I):Develop		3				
系選修 Department Elective Courses	財務金融領域 Finance Field			財務報表分析 Financial Statement Analysis		3	財務理論與評價 Financial Theory and Valuations		3		創業財務:創投、避險、與私募基金 Entrepreneurial Finance: Venture Capital、Hedging and Private Equity		3	
				金融創新實務演講 Seminar in Financial Innovation Practice		1	數位金融工作坊-證券型代幣發行 Digital Finance Workshop - Security Token Offer		1		金融社會責任實作 Financial Social Responsibility Practice		2	
							國際金融與投資 International Finance and Investment			3				
							數位金融工作坊-套利交易 Digital Finance Workshop - Arbitrage Trading			1				
							行為財務學 Behavior Finance			3				
	財務數量領域 Quantitative Finance Field						計量經濟學 Econometrics		3		數量方法專題 Speical Topic on Quantitative Methods		2	
								財務時間數列分析 Financial Time Series			3			
	財務工程領域 Financial Engineering Field			財務最佳化與模擬 Financial Optimizations and Simulations			3	量化資產管理 Quantitative Asset Managements		3		財務計算專題 Speical Topic on Computational Finance		2
								衍生性金融商品 Financial Derivatives			3			
	金融科技領域 FinTech Field			大數據分析方法 Big Data Analytical Methods		3		金融科技應用與實務 FinTech Applications and Practices		3		數位金融專題實作 Speical Topic on Digital Finance Practices		2
				物聯網概論 Introduction of IoT			3	數位支付與網路安全 Digital Payment and Cyber Security		3		金融產業實習(1) Internship in Financial Industry(I)		3
								區塊鏈與智慧合約 Blockchain and Smart Contracts		3		金融產業實習(2) Internship in Financial Industry(II)		3
							程式交易演算 Program Trading Algorithm			3				
備註 Remarks		1. 畢業學分:128學分。 (1)必修68學分(含系必修56學分;管院共構必修12學分)。 (2)選修32學分: ○系選修至少20學分(含「數位金融工作坊-證券型代幣發行」、「數位金融工作坊-套利交易」二選一,1學分)。 ○選修他系課程至多承認12學分(通識課程、體育及全民國防教育軍事訓練選修課程不予列入)。 (3)通識學分:請詳見通識中心修課規定。英文領域、核心、多元課程20學分,其中管院共構必修「人工智慧語言與產業應用」這為抵免多元-運算思維領域「人工智慧概論」1學分後,共28學分。 Graduation credits : 128 credits. (1) 68 credits of required courses (including 56 credits of department required courses and 12 credits of co-construction required courses for college of management). (2) 32 credits of elective courses: ○At least 20 credits of department elective courses (including students must take one out of the following two courses: "Digital Finance Workshop - Security Token Offer" or "Digital Finance Workshop - Arbitrage Trading"). ○At most 12 credits of elective courses are admitted from other departments (general education courses, physical education, and military training elective courses for national defense education are not admitted). (3) General education credits: Please refer to the Center for General Education for details.29 credits for english field, core and diverse elective courses. In addition,students can use the course of "AI Language and the Industrial Applications" to apply for waivers of 1 credit of "Introduction to Artificial Intelligence". 2. 體育大一、大二必修0學分。 Physical Education, First year and Second year are required courses (0 credits). 3. 【深耕學園】必修0學分,請詳見學務處深耕學園專區說明。 [Shengen course] is required courses,0 credits,please refer to the Office of Student Affairs for details of the course. 4. 本校訂有英文畢業門檻,須達校訂標準方可畢業,請詳見語文中心規定。 Our university has graduation threshold for English, which must be met in order to graduate,please refer to the Language Center for details. 5. 擋修規定:(1)「會計學(1)」未修達及格者不得修「會計學(2)」。 (2)「經濟學(1)」未修達及格者不得修「經濟學(2)」。 (3)「人工智慧語言與產業應用」未修達及格者不得修「Python程式設計」。 (4)「會計學(2)」未修達及格者不得修「財務管理」。 (5)「統計學(1)」未修達及格者不得修「統計學(2)」。 (6)「金融科技APP(1):開發」未修達及格者不得修「金融科技APP(2):專題」。 Course Prerequisites(prerequisite course must be passed before taking subsequent course): (1)Accounting(I) → Accounting(II) (2)Economics(I) → Economics(II) (3)AI Language and the Industrial Applications → Python Computer Programming (4)Accounting(II) → Financial Management (5)Statistics(I) → Statistics(II) (6)FinTech APP(I):Develop → FinTech APP(II):Special Topic 6. 系訂必修課程首次修讀者不得至外系選修。 First-time take the required courses of our department are not allowed to take in other departments.												