資訊管理與財務金融學系財務金融碩士班

113 學年度

	113 学年度
最低 修業年限	一年
應修	財務工程組、財務決策組:38 學分 (不含先修課程)
學分數	資料科學組:31 學分(含個別研究2學分,不含先修課程)
學分數	 ◆ 大修課程: ◆ 財務工程組/財務決策組:經濟學、會計學、統計學各3學分(得憑大學以上成績單證明或其他同等級課程相關證明提出申請,可免修或改修相關課程)。 ◆ 資料科學組:資料結構、程式設計、經濟學、統計學(或機率學)各3學分(得憑大學以上成績單證明或其他同等級課程相關證明提出申請,可免修或改修相關課程)。 ◆ 3組共同必修課程(共2學分):財金理論與實務(1學分)、碩士論文研究(1學分)。 ◆ 各組必/選修課程: 申組、財務工程組:(共計36學分) 1. 必修(共21學分):財務管理、投資學、期貨與選擇權、財務計量經濟學、金融機構與市場、財務數學、衍生性商品理論。 2. 選修課程(共15學分)(外系所課程至多採計6學分,選修外系所開設課程且欲列計畢業學分者,需於當學期加退選結束之前繳交選修外所課程認定申請表;在職專班課程不得列計畢業學分。) 乙組、財務決策組:(共計36學分) 1. 必修(共24學分):財務管理、投資學、期貨與選擇權、財務計量經濟學、金融機構與市場、財務無表分析、國際財務管理、公司理財。 2. 選修課程(共12學分)(外系所課程至多採計6學分,選修外系所開設課程且欲列計畢業學分者,需於當學期加退選結束之前繳交選修外所課程認定申請表;在職專班課程不得列計畢業學分。) 丙組、資料科學組:(共計29學分)。 2. 本系資訊頻課程選3門(共9學分)。 2. 本系資訊頻課程選3門(共9學分)。 2. 本系資訊頻課程選4門(共12學分)。或可選修下列由台灣聯合大學系統開設之資訊相關課程(不列計外系所學分):(1)機器學習(2)深度學習(3)資料採勘(4)網路安全;或由指導教授認可之資訊相關課程(需於當學期加退選結束之前繳交選修外所課程認定申請表)。 3. 個別研究(共2學分):一年級上、下學期必修「個別研究」課程,上、下學期各1學分。
	4. 選修課程2門(共6學分)。(外系所課程至多採計6學分,選修外系所開設課程且 欲列計畢業學分者,需於當學期加退選結束之前繳交選修外所課程認定申請表;
	在職專班課程不得列計畢業學分。)
	1. 僑生、陸港澳學生以及外籍生,需於錄取後至入學第一學期開學2週前完成選組。
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備註	2. 本班甲組與乙組可互相轉組,但甲組或乙組不能轉入丙組;丙組不得轉入甲組或乙

Department of Information Management and Finance Graduate Program of Finance

Academic Requirements for Master Students

Academic year 2024

Minimum			
Period of Study	One year		
Minimum	<u>Financial Engineering / Financial Decision</u> : 38 credits (excluding preliminary courses)		
Graduation	<u>Data Science</u> : 31 credits (including 2 credits of "Independent study"; excluding preliminary		
Credits	courses)		
Prerequisite Courses and Core Courses	 ▶ Preliminary courses: ★ Major in Financial Engineering / Financial Decision: Economics, Accounting, and Statistics, 3 credits for each subject (Students may apply to exempt the courses or change to other courses according to their transcriptions of university level or above, or certificates of other programs at the same level.) ★ Major in Data Science: Data Structure, Programming, Economics, and Statistics (or Probability), 3 credits for each subject (Students may apply to exempt the courses or change to other courses according to their transcriptions of university level or above, or certificates of other programs at the same level.) ♦ Common Core Courses for All Majors (2 credits): Theory and Practice in Finance (1 credit), Thesis (1 credit) ♦ Required/Elective Courses for Each Major: A. Financial Engineering (36 credits): 1. Required Courses (21 credits) Financial Management (3 credit), Investment (3 credit), Futures and Options (3 credit), Financial Mathematics (3 credit), Theory of Derivatives (3 credit) 2. Elective Courses (15 credits) ➤ At most 6 credits of the courses related to financial field offered by other departments or graduate institutes can be adopted. ➤ For graduation credits counted permission, students need to hand out the application form before the course registration due date of the semester. ➤ Courses offed by the part-time master program cannot count for graduation credits. B. Financial Decision (36 credits): 1. Required Courses (24 credits): 1. Required Courses (24 credits): 1. Required Courses (3 credit), Financial Institutions and Markets (3 credit), Financial Econometrics (3 credit), Financial Institutions and Markets (3 credit), Financial Statement Analysis (3 credit), Multinational Financial Management (3 credit), Co		

	C. Data Science (29 credits):
	1. Financial field courses (9 credits): at least 3 Financial field courses out of courses offered
	by our department.
	2. <u>Information field courses (12 credits)</u> : at least 4 information field courses out of courses
	offered by our department. Or following courses related to information field offered by
	University System of Taiwan (UST) (will be regarded as the courses offered by our
	department): (1) Machine Learning, (2) Deep Learning, (3) Data Mining, (4) Cyber
Prerequisite Courses and	Security. Or courses related to information field approved by advisors (need to hand out the
	application form before the course registration due date of the semester.).
Core Courses	3. <u>Independent Study (2 credits)</u> : Compulsory for the first and second semesters of the first
Core courses	grade, 1 credit for each semester.
	4. Elective Courses (6 credits)
	At most 6 credits of the courses related to financial field offered by other departments or
	graduate institutes can be adopted.
	For graduation credits counted permission, students need to hand out the application
	form before the course registration due date of the semester.
	Courses offed by the part-time master program cannot count for graduation credits.
	1. Overseas Chinese students, Mainland China students, and Foreign students must complete
	the major selection after received admission notice to 2 weeks before the start of the first
Notes	semester.
	2. Group A and Group B can be transferred to each other, but Group A or B cannot be
	transferred to Group C; Group C cannot be transferred to Group A or B.

^{*}The Regulations were drawn up in Chinese and translated into English. In the event of any discrepancy between the two versions, the original Chinese version shall prevail.

資訊管理與財務金融學系財務金融博士班

113 學年度

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最低修業年限	二年			
應修學分數	37 學分 (不含先修課程)			
直升博士生 應修學分數	<u>43 學分</u> (不含先修課程)			
	 經濟學、會明提出申記 經濟學、資級課程相關 	青,可免修或改修相關課程 資料結構、演算法、程式設 關證明提出申請,可免修	(得憑大學以上成 程) 計各3學分。(得	續單證明或其他同等級課程相關 憑大學以上成績單證明或其他同
	● 課程結構		سد د هم	# A.
	類別	課程名稱	學分數	備註
	基	財務管理期貨與選擇權	3 學分 3 學分	
應	礎	投資學	3學分	
//G	課	行生性商品理論	3學分	基礎課程6選3
	程 (# 0 舉八)	財務計量經濟學	3 學分	
修	(共9學分)	財務數學	3 學分	
		財務理論(博)	3 學分	
) we		高等財務計量(博)	3 學分	
程 核 心 課 程 (共13學分)	博士班論文研討	1 學分	 ◇ 財金組:申請博士學位考試前需修滿7學分,超過7學分者不予採計。 ◇ AI 組:申請博士學位考試前需修滿4學分,超過4學分者不予採計。 111學年度之前未修習過博士班論文研討 B之學生可申請追溯適用本項規定 	
		人工智慧理論與實作	3 學分	本課程為 AI 組必修;可以財金博委會審查通過之其他相關課程取代。

類別	課程名稱	學分數	備註
	財務決策專題(博)	3 學分	
專業	財務工程專題(博)	★ 財金組: 前 4 個專題 4 選 2 。★ AI 組: 專業課程 5 選 1。	
課 程 (財金組共6學	金融機構專題(博) 3學分		
分; AI 組共 3 學分)	財務經濟專題(博) 3 學分		
	數據科學專題	3 學分	
			❖「個別研究」課程:需 <u>擇定</u> 指導教授後方可選修。
	個別研究	1學分	❖ 財金組: 本課程至多採計 6 學分。❖ AI 組: 本課程至多採計 3 學分。
選修課程 (財金組共9學 分;AI組共12 學分)			 ★ 財金組: 外系所課程至多採計6學分(不含由財金博委會通過之相關課程)。 ★ AI 組: 可修習左述本校開設之其他 AI 相關課程。 ★ 表列之各項課程如有修習超過之其他 AI 相關課程。 ★ 表列之各項課程如有修習到計為選修課程。 ★ 未列之各項課程如有修習到計為選修課程。 ★ 表列之各項課程如有修習利益。 ★ 表列之各項課程如有修習利益。 ★ 表列之各項課程如有修習利益。 ★ 表列之各項課程如有修習利益。 ★ 表別之各項課程如有修習利益。 ★ 表別之各項課程如有修習利益。 ★ 表別之各項課程如有修習利益。 ★ 表別之書籍。 ★ 本 新 提出 查 通 過 之 課程 內 計 外 系 所 課 本 系 別 計 外 系 所 課 本 系 別 計 外 系 所 課

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其他事項:本班之外籍生在財金博委會同意下,可申請至臺灣聯合大學系統修讀相關課程;申請通過後,其所修讀之課程,可視同本系開設之課程。

Department of Information Management and Finance Graduate Program of Finance

Academic Requirements for Doctoral Students

Academic Year 2024

minimum periods	2 years	
minimum graduation credits	37 credits (excluding preliminary courses)	
minimum graduation credits of students admitted to the PhD program from MA program	43 credits (excluding preliminary courses)	

- Preliminary Course: Divided into following two categories, students must need to meet one of them.
 - (1) Economics, Accountings, and Statistics, <u>6 credits for each subject</u> (Students may apply to exempt the courses or change to other courses according to their transcriptions of university level or above, or certificates of other programs at the same level.)
 - (2) Economics, Data Structure, Algorithms, and Programming, <u>3 credits for each subject</u> (Students may apply to exempt the courses or change to other courses according to their transcriptions of university level or above, or certificates of other programs at the same level.)

• Course structure:

Type	Title	Credits	Remarks	
	Financial Management	3	Basic Courses	
	Futures and Options	3		
Basic Courses	Investment	3		
(9 credits in total)	Theory of Derivatives	3	(3 out of 6)	
iotai)	Financial Econometrics	3		
	Financial Mathematics	3		
Core Courses (13 credits in total)	Financial Theory	3		
	Advanced Financial Econometrics	3		
	Seminar in Finance for Doctoral Students	1	Finance group: The required courses should be fulfilled with 7 credits in total. Credits over 7 are not adopted. AI group: The required courses should be fulfilled with 4 credits in total. Credits over 4 are not adopted. Applicable to IOF students who has not taken the course "Seminar in Finance for Doctoral Students B" before academic year 2022.	
	Artificial Intelligence: Theory and Practice	3	Required course of <u>AI group</u> ; can be replaced with other courses that approved by the IOF PhD Program Committee.	

Courses

Type	Title	Credits	Remarks
Professional Courses	Special Topics on Corporate Finance	3	
(<u>Finance</u>	Special Topics on Financial Engineering	3	
group: 6 credits in	Seminar on Financial Institutions	3	<u>Finance group:</u> 2 out of first 4 courses
total; <u>AI</u> group: 3	Special Topics in Financial Economics	3	AI group: 1 out of 5 courses
credits in total)	Data Science Project	3	
cetary	Independent Study	1	The course, "Independent Study," can be selected by students who has determined their advisors only. Finance group: At most 6 credits are adopted. AI group: At most 3 credits are adopted.
Elective Courses (Finance group: 9 credits in total; AI group: 12 credits in total)	Finance group: All graduate courses offered by our department. AI group: 1. All graduate courses offered by our department. 2. Other related graduate courses listed below offered by University System of Taiwan (UST) (will be regarded as the courses offered by our department) Information Security Machine Learning and FinTech Data Mining Statistical Methods Introduction to Data Science and Software Practice Big Data Analytics Techniques and Applications Machine Learning (Algorithm and Its Application) Parallel Programming Data Visualization and Visual Analytics Statistical Computing Multivariate Analysis Financial Time Series Analysis Other courses that approved		 Finance group: At most 6 credits of the courses in financial field offered by other departments or graduate institutes can be adopted. (other courses that approved by the IOF PhD Program Committee are not included) AI group can take all courses listed in the left side. All listed courses in the Academic Requirements can count as elective credits if taken more than the required credits. If students who want to take the courses offered by other departments or graduate institutes, they need to applied before the semester begin and must be approved by the IOF PhD Program Committee. Courses approved by the IOF PhD Program Committee will be regarded as the courses offered by our department.
	by the IOF PhD Progr Committee	nmittee the foreign students can study the	

Others: Under the approval of IOF PhD Program Committee, the foreign students can study the related courses given by the University System of Taiwan (UST) and it will be regarded as the courses offered by our department.

^{*}Applicable also to students admitted before academic year 2022 retrospectively under the approval of student's advisor or the chairman in financial field.

^{*}The Regulations were drawn up in Chinese and translated into English. In the event of any discrepancy between the two versions, the original Chinese version shall prevail.