

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 Graduation Credits	<u>Financial Engineering / Financial Decision</u> : 38 credits (excluding preliminary courses) <u>Data Science</u> : 31 credits (including 2 credits of “Independent study”; excluding preliminary courses)
Prerequisite Courses and Core Courses	<ul style="list-style-type: none"> ◆ Preliminary courses: <ul style="list-style-type: none"> ❖ <u>Major in Financial Engineering / Financial Decision</u>: 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.) ❖ <u>Major in Data Science</u>: 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.) ◆ <u>Common Core Courses for All Majors (2 credits)</u>: Theory and Practice in Finance (1 credit), Thesis (1 credit) ◆ <u>Required/Elective Courses for Each Major:</u> <ul style="list-style-type: none"> <u>A. Financial Engineering (36 credits):</u> <ol style="list-style-type: none"> 1. <u>Required Courses (21 credits)</u> Financial Management (3 credit), Investment (3 credit), Futures and Options (3 credit), Financial Econometrics (3 credit), Financial Institutions and Markets (3 credit), Financial Mathematics (3 credit), Theory of Derivatives (3 credit) 2. <u>Elective Courses (15 credits)</u> <ul style="list-style-type: none"> ➤ 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 offered by the part-time master program cannot count for graduation credits. <u>B. Financial Decision (36 credits):</u> <ol style="list-style-type: none"> 1. <u>Required Courses (24 credits)</u> Financial Management (3 credit), Investment (3 credit), Futures and Options (3 credit), Financial Econometrics (3 credit), Financial Institutions and Markets (3 credit), Financial Statement Analysis (3 credit), Multinational Financial Management (3 credit), Corporate Finance (3 credit) 2. <u>Elective Courses (12 credits)</u> <ul style="list-style-type: none"> ➤ 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 offered by the part-time master program cannot count for graduation credits.

Prerequisite Courses and Core Courses	<p><u>C. Data Science (29 credits):</u></p> <ol style="list-style-type: none"> 1. <u>Financial field courses (9 credits):</u> 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 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.). 3. <u>Independent Study (2 credits):</u> Compulsory for the first and second semesters of the first grade, 1 credit for each semester. 4. <u>Elective Courses (6 credits)</u> <ul style="list-style-type: none"> ➤ 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 offered by the part-time master program cannot count for graduation credits.
Notes	<ol style="list-style-type: none"> 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 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碩士班

113 學年度

最低 修業年限	一年
應修 學分數	財務工程組、財務決策組：38 學分 (不含先修課程) 資料科學組：31 學分 (含個別研究 2 學分，不含先修課程)
應修課程	<p>◆ 先修課程：</p> <p>❖ <u>財務工程組/財務決策組</u>：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)。</p> <p>❖ <u>資料科學組</u>：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)。</p> <p>◆ <u>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)。</u></p> <p>◆ 各組必/選修課程：</p> <p><u>甲組、財務工程組：(共計 36 學分)</u></p> <ol style="list-style-type: none"> 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 <u>當學期加退選結束之前</u> 繳交 <u>選修外所課程認定申請表</u>；在職專班課程不得列計畢業學分。) <p><u>乙組、財務決策組：(共計 36 學分)</u></p> <ol style="list-style-type: none"> 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、財務報表分析、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 <u>當學期加退選結束之前</u> 繳交 <u>選修外所課程認定申請表</u>；在職專班課程不得列計畢業學分。) <p><u>丙組、資料科學組：(共計 29 學分)</u></p> <ol style="list-style-type: none"> 1. 本系財務類課程選 3 門 (共 9 學分)。 2. 本系資訊類課程選 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) 資料探勘 (4) 網路安全；或由指導教授認可之資訊相關課程 (<u>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</u>)。 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 <u>當學期加退選結束之前</u> 繳交 <u>選修外所課程認定申請表</u>；在職專班課程不得列計畢業學分。)
備註	<ol style="list-style-type: none"> 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。 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組。