

國立臺北商業大學碩士班資訊與決策科學研究所課程科目表 (113 學年度入學新生適用)

Course List for Master of Science (MS), Institute of Information and Decision Sciences, School of Management, National Taipei University of Business (Applicable to Students Admitted in Fall, 2024)

科目類別 Category	科目名稱 Course Title	學分數 Credit	時數 Hour	授 課 時 數 Contact Hour								備註 Remarks
				第一學年 AY 1				第二學年 AY 2				
				上 Fall		下 Spring		上 Fall		下 Spring		
				授課 Lecture	實習 Practice	授課 Lecture	實習 Practice	授課 Lecture	實習 Practice	授課 Lecture	實習 Practice	
專業必修 Core Course (Compulsory)	專題演講(一) Project Speech	2	4		2		2					專業必修6學分 (不含論文)
	專題演講(二) Project Speech	2	4						2		2	
	論文 Thesis	(6)	(6)					(3)		(3)		
	合計 Subtotal	4	8	0	2	0	2	0	2	0	2	
	期刊論文導讀 Journal Papers Reading	2	6		3		3					三選一 Choose one of the three.
	書報討論 Seminar	2	6		3		3					
	科技新知研討 Study on New Technology	2	6		3		3					
合計 Minimum of Electives Required	2	6	0	3	0	3	0	0	0	0		
必修合計 Subtotal, Compulsory	6	14	0	5	0	5	0	2	0	2		
專業選修 Elective	高等資料庫 Advanced Database System	3	3	3								資料科學模組 Data Science Module Courses
	資料科學 Data Science	3	3	3								
	資料探勘 Data Mining	3	3			3						
	雲端運算技術 Cloud Computing	3	3			3						
	深度學習 Deep Learning	3	3					3				
	社群網路資料分析 Data Analysis in Social Networks	3	3							3		
	強化式學習 Reinforcement Learning	3	3							3		
	多變量統計分析 Multivariate Statistical Analysis	3	3							3		
	自然語言處理 Natural Language Processing	3	3							3		
	資訊理論基礎與應用 Information Theory and Application of Foundation	3	3	3								計算理論與應用模組 Computation Theory and Application Module Courses
	演算法設計與應用 Algorithm Design and Applications	3	3	3								
	程式設計與計算思維 Computer programming with applications	3	3	3								
	圖形理論及其應用 Graph Theory and Application	3	3			3						
	人工智慧與神經網路 Artificial Intelligence and Neural Networks	3	3					3				
	網路安全 Network Security	3	3							3		
	最佳化理論與應用 Optimization Theory and Applications	3	3							3		
	生成式AI Generative Artificial Intelligence	3	3							3		
	物聯網及其應用 Internet of Things and Applications	3	3	3								商業模型與決策模組 Business Model and Decision Module Courses
	商業智慧 Business Intelligence	3	3			3						
機器學習與決策 Machine Learning and Decision	3	3			3							
決策分析與管理 Decision Analysis and Management	3	3					3					
科技英文 English for Information Technology	3	3					3					
應用統計學 Applied Statistics	3	3							3			
顧客關係管理 Customer Relationship Management	3	3							3			
AI金融科技 AI FinTech	3	3							3			
英文訓練(畢輔) English Training	0	3			3							
專題研究實習 Practice of Topic Research	4	4			1	1			1	1	列學期修習學分數，但不計畢業學分。 Exclusive for graduation requirement	

教育專案實習 Practice of Educational Case Study	4	4		1		1		1		1	列學期修習學分數，但不計畢業學分。 Exclusive for graduation requirement
合計 Subtotal, Elective	83	86	18	2	18	2	12	2	30	2	
畢業最低總學分數36（專業選修至少應修30學分）（不含畢業論文6學分） Total Number of Required Credits :36 (excluding thesis 6 credits) (Minimum of Electives Required: 32 Credits)											

備註1. 最低畢業學分數：36學分(不含碩士論文6學分)，其中必修6學分、選修30學分。

Remark1: Minimum graduation credits: 36 credits (excluding 6 credits for master's thesis), of which 4 credits are compulsory and at least 32 elective credits are required.

備註2. 本所先修科目為統計學及程式設計(於大學、二專或五專四、五年級修滿3學分，且分數達60分以上)，未修或少修該科目學分者，需至大學部(程式設計需要至資管系補修)或碩士班補修，分數達70分以上，且不列入畢業學分；其餘相關規定以本所碩士班先修基礎科目抵免辦法為準。

Remark 2: The prerequisite courses of the program are statistics and computer programming (3 credits with scores no less than 60). Students who do not meet the prerequisite must catch up the requirement while the make-up credits will be NOT counted toward total credits required for graduation.

備註3. 學生須依本校「研究生學術倫理教育實施要點」完成學術倫理教育相關課程達6小時以上，始得申請論文學位考試。

Remark3: According to the "Guidelines for Academic Research Ethics Education Course", students are required to complete the Research Ethics Education course (more than 6 hours) to apply for a dissertation exam.

備註4. 跨所、跨校選修應填寫紙本選課申請書，送經本所認列上限6學分為畢業學分數。

Remark4: For cross-institution or cross-school electives, a paper course selection application form should be filled in and submitted to the institute for recognition of a maximum of 6 credits as graduation credits.

備註5. 學生應就資料科學模組、計算理論與應用模組、商業模型與決策模組，每一模組至少選修6學分，始能畢業。

Remark5: Students should take at least 6 credits in each module in the Data Science Module Courses, Computation Theory and Application Module Courses, and Business Model and Decision Module Courses to graduate.

備註6：學生於任一模組修滿15學分時，得檢具歷年成績表，向本所申請核發模組課程證明書。

Remark6: When students have completed 15 credits in any module, they can submit their previous academic transcripts and apply to our institute for a module course certificate.

備註7：專業選修科目得視實際情況調整開課學期別。

Remark7: Given practical circumstances, adjustments can be made to elective courses regarding what semester to start them.