

Curricular planning for Master-degree program
Department of Information Management, Chaoyang University of Technology
(applicable to day division students enrolled in 2022)

Academic Year	First Year						Second Year						
	First Semester			Second Semester			First Semester			Second Semester			
	Subject	Hours	Credit	Subject	Hours	Credit	Subject	Hours	Credit	Subject	Hours	Credit	
Required Courses	資訊講座 Speeches in Information Technology	1	1	資訊講座 Speeches in Information Technology	1	1							
	論文寫作 Technical Writing	2	2										
	研究方法論 Research Methodology	1	1										
Subtotal		4	4		1	1		0	0		0	0	
Elective Courses				資訊安全研究專題 Special Topics in Information Security	2	2	決策支援研究專題 Special Topics in Decision Support	2	2	網路安全研究專題 Special Topics in Network Security	2	2	
				行動網路研究專題 Special Topics in Mobile Network	2	2	無線網路研究專題 Special Topics in Wireless Network	2	2	知識管理研究專題 Special Topics in Knowledge Management	2	2	
				多媒體應用研究專題 Special Topics in Multimedia Application	2	2	多媒體技術研究專題 Special Topics in multimedia technique	2	2	行動多媒體研究專題 Special Topics in Mobile Multimedia	2	2	
				智慧型系統研究專題 Special Topics in Intelligent Systems	2	2	多媒體安全研究專題 Special Topics in multimedia security	2	2	多媒體資料庫研究專題 Special Topics in Multimedia Databases	2	2	
				資訊隱藏技術研究專題 Special Topics in Information Hiding Techniques	2	2	資訊保密與安全研究專題 Encryption and Security	2	2	資料壓縮與應用研究專題 Special Topics in Data Compression and Applications	2	2	
				整合式商務系統研究專題 Special Topics in Integrated Information Systems	2	2	網際網路商務系統研究專題 Special Topics in Web-Based Information Systems	2	2	跨平台商務系統研究專題 Special Topics in Cross-platform Business Systems	2	2	
	科技類(至少修習6學分)												
		高等演算法 Advanced Algorithm	3	3	密碼學 Cryptography	3	3	資訊隱藏 Information Hiding	3	3	數位學習系統 E-Learning Management System	3	3
		高等電腦網路 Advanced Computer Networks	3	3	人工智慧與機器學習 Artificial Intelligence and Machine Learning	3	3	平行計算 Parallel Computing	3	3	資訊安全管理 Information Security Management	3	3
		作業研究 Operations Research	3	3	類神經網路 Neural Networks	3	3	增強式學習 Reinforcement Learning	3	3	多媒體資料庫 Multimedia Database	3	3
		進階雲端運算 Advanced Cloud Computing	3	3	代理人系統 Agent Systems	3	3			多媒體壓縮技術 Multimedia Compression Technique	3	3	
		資料探勘 Data Mining	3	3	物件導向技術 Object Oriented Programming	3	3			產學實務研究 Industry Research Practice	6	6	
		高等資料庫系統 Advanced Database System	3	3	企業應用程式開發 Enterprise Application Development	3	3						
		模糊理論與應用 Fuzzy Theory and Application	3	3	資訊融入教學設計 ICT in Teaching Design	3	3						
		物聯網與大數據分析 Internet of Things and Big Data Analysis	3	3									
		數位學習發展與趨勢 The Evolution of E-Learning	3	3									
	管理類												
		知識管理 Knowledge Management	3	3	供應鏈管理 Supply Chain Management	3	3	流程改善方法 Process Improvement Methodologies	3	3	資訊產業經營與管理 Advanced Information Industry Operation and Management	2	2
		高等電子商務 Advanced Electronic Commerce	3	3	多變量分析 Multivariate Analysis	3	3	企業資源規劃 Enterprise Resources Planning	3	3	管理心理學 Management Psychology	3	3
		高等軟體工程 Advanced Software Engineering	3	3	多準則決策 Multiple Criteria Decision Making	3	3	網路公民素養 Netizen Literacy	3	3	軟體品質管理 Software Quality Management	3	3
		協同式數位學習 Collaboration E-Learning	3	3	管理資訊系統 Management Information Systems	3	3						
	企業資訊管理實務 Practices in Business Information Management	3	3	資訊科技管理 Information Science and Technology Management	3	3							

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	數位多媒體應用類課程											
	3D遊戲程式 3D Game Programming	3	3	數位視訊處理 Digital Video Processing	3	3	影像處理 Image Processing	3	3	圖形識別與機器學習 Pattern Recognition and Machine Learning	3	3
				多人線上遊戲程式設計 Multi-player Online Game Programming	3	3	數位藝術創作 Digital Arts Creative Project	3	3	動畫研究與應用 Animation Research and Application	3	3
Subtotal		45	45		54	54		36	36		44	44
University Requirements												
Required Courses				3 Courses 5 Credits								
Elective Courses				Minimum elective 21 Credits("Technology" has minimum elective 6 Credits)								
Recognition limit of credits provided by other departments				6 Credits								
Total Requirement				38 Credits (incl. 6 credits on master-degree seeking theses)								

一、全校性規定：學生需修習並通過「學術研究倫理教育」相關課程後，始得申請學位考試。

二、本系之規定：

- (一)「科技類」至少選修6學分。
- (二)經指導教授及系主任同意所修習他系之課程，得列為本系之專業選修課程。
- (三)本系修習資訊學院其他系所開設之課程列為專業選修。
- (四)「研究專題」課程每學期至多得修習 2 學分。
- (五)「產學實務研究」為選修6學分校外實習課程。

三、可承認之非本系學分數上限包含外系學分、課程規劃中未有之本系課程。

1. University-level regulations: Students are required to take and pass "Ethics Education Course" before applying for the entrance exam.
2. Department regulations:
 - (1) The "Technology" elective course must take at least 6 credits.
 - (2) The advisor and the head of the department agree that the course is classified as a professional elective course.
 - (3) Courses offered by other departments in the College of Informatics can be considered professional elective credits.
 - (4) Up to 2 credits of the "Research Topics" course can be taken per semester.
 - (5) "Industry Research Practice" is an optional 6-credit off-campus internship.
3. The department will limit the recognition of credits provided by other departments, including undisclosed courses in the curriculum planning stage.