National University of Kaohsiung, Department of Information Management, Master's Program Required and Elective Courses List
For students admitted after the 2024 Academic Year

Required courses：15 credits							
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	Note
Research Methodology(I)	Required	3	√				
Information Management	Required	3	√				
Seminar for Information Management Issues(I)	Required	1	√				
Research Methodology(II)	Required	3		√			
Introduction to Information Technology	Required	3		√			
Seminar for Information Management Issues(II)	Required	1		√			
Seminar for Information Management Issues(II)	Required	1			√		

Elective courses 15 credits							
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	Note
Special Topics in Information Management(I)	Elective	1	√				
Information Technology and Corporate Strategy	Elective	3	√				
Information Technology Trend and Practical Business English	Elective	3	√				
Sustainable Commerce Research	Elective	3	√				
Investment and financial management practice	Elective	3	√				
Information Technology & Service Innovation	Elective	3	√				

Elective courses 15 credits							
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	Note
Information Retrieval	Elective	3	√				
Data Analysis Techniques and Applications	Elective	3	√				
Data and Service Science Practice	Elective	3	√				
Smart campus Information Technology Application Implementation Project	Elective	3	√				
Patent Information for Technology Management	Elective	2	√				
Information and Technology Management	Elective	3	√				
Data Analytics and Visualization	Elective	3	√				
Advanced Database Management	Elective	3	√				
Machine Learning	Elective	3	√				
Special Topics in Information Management(II)	Elective	1		√			
Knowledge Management Research	Elective	3		√			
Supply Chain Management	Elective	3		√			
Digital Marketing	Elective	3		√			
English Presentation Practice	Elective	3		√			
Research Topics on Information Services	Elective	3		√			
Information Technology and Business Models	Elective	3		√			
Business Visits & Case Study	Elective	4		√			
Data Mining and Knowledge Discovery	Elective	3		√			
Social Media Management and Analysis	Elective	3		√			
Internet of Things	Elective	3		√			
Internet of Things Technology Application Implementation Project	Elective	3		√			
Managerial Mathematics	Elective	3		√			
Unmanned Vehicle Design and Application	Elective	3		√			

Elective courses 15 credits							
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	Note
Indoor Localization Tracking and Unmanned Vehicle Application	Elective	3		√			
Data engineering and Applications	Elective	3		√			
Innovative Practical Applications of Artificial Intelligence	Elective	3		√			
Internship Ⅱ	Elective	6		√			Classes are only offered during the summer vacation.
Special Topics in Information Management(III)	Elective	1			√		
Internship I	Elective	9				√	
Internship Ⅲ	Elective	3				√	
Special Topics in Information Management(IV)	Elective	1				√	
Seminar for Information Management Issues(IV)	Elective	1				√	

1. Prerequisite courses(0 credits)：
   - Database Management、Systems Analysis and Design、Computer Network (Select two out of three).
   - Take at least two courses related to Program Design.
   - Business Management、Introduction to Information Management (Choose one out of two).
   - Statistics(II).
2. Each semester, course enrollment must be approved and signed by the advisor.
3. In elective courses, students must select at least one course from the management category and one course from the technical category.