

# National University of Kaohsiung, Department of Information Management, Master's Program Required and Elective Courses List

## For students admitted after the 2025 Academic Year

Approved and amended on March 5, 2007, by the 1st Department Meeting of the 2nd Semester of the 95<sup>th</sup> Academic Year  
 Approved and amended on April 30, 2007, by the 2nd Department Meeting and Curriculum Meeting of the 2nd Semester of the 95<sup>th</sup> Academic Year  
 Approved and amended on October 29, 2012, by the 3rd Department Meeting and Curriculum Meeting of the 1st Semester of the 101<sup>th</sup> Academic Year  
 Approved and amended on December 3, 2012, by the 3rd Department Curriculum Meeting of the 1st Semester of the 101<sup>th</sup> Academic Year  
 Approved and amended on December 24, 2012, by the 5th Department Meeting of the 1st Semester of the 101<sup>th</sup> Academic Year  
 Approved and amended on December 7, 2015, by the 1st Department Curriculum Meeting of the 1st Semester of the 104<sup>th</sup> Academic Year  
 Approved and amended on May 11, 2016, by the 1st College Curriculum Meeting of the 2nd Semester of the 104<sup>th</sup> Academic Year  
 Approved and Recorded on May 26, 2016, by the University Curriculum Meeting of the 2nd Semester of the 104<sup>th</sup> Academic Year  
 Approved and amended on September, 2017, by the 5th Department Meeting of the 1st Semester of the 106<sup>th</sup> Academic Year  
 Approved and amended on November 9, 2017, by the 1st College Curriculum Meeting of the 1st Semester of the 106<sup>th</sup> Academic Year  
 Approved and Recorded on November 30, 2017, by the University Curriculum Meeting of the 1st Semester of the 106<sup>th</sup> Academic Year  
 Approved and Recorded on December 8, 2021, by the University Academic Affairs Meeting of the 1st Semester of the 110<sup>th</sup> Academic Year  
 Approved and amended on February 13, 2023, by the 1st Department Meeting of the 2nd Semester of the 111<sup>th</sup> Academic Year  
 Approved and amended on March 13, 2024, by the 3rd Department Meeting of the 2nd Semester of the 112<sup>th</sup> Academic Year  
 Approved and Recorded on October 29, 2024, by the 1st Department Curriculum Meeting of the 1st Semester of the 113<sup>th</sup> Academic Year  
 Approved and amended on November 18, 2024, by the 1st Department Curriculum Meeting of the 1st Semester of the 113<sup>th</sup> Academic Year  
 Approved and Recorded on April 23, 2025, by the 1st Department Curriculum Meeting of the 2nd Semester of the 113<sup>th</sup> Academic Year  
 Approved and amended on May 12, 2025, by the 1st Department Curriculum Meeting of the 2nd Semester of the 113<sup>th</sup> Academic Year  
 Approved and Recorded on October 30, 2025, by the 1st College Curriculum Meeting of the 1st Semester of the 114<sup>th</sup> Academic Year  
 Approved and amended on November 10, 2025, by the 1st Department Curriculum Meeting of the 1st Semester of the 114<sup>th</sup> Academic Year  
 Approved and Recorded on May 5, 2026, by the 1st College Curriculum Meeting of the 2nd Semester of the 114<sup>th</sup> Academic Year  
 Approved and amended on May 28, 2026, by the University Curriculum Meeting of the 2nd Semester of the 114<sup>th</sup> Academic Year

<b>Required courses : 15 credits</b>							
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			√		

<b>Elective courses 15 credits</b>							
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	√				

Elective courses 15 credits							
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	Note
Information Technology Trend and Practical Business English	Elective	3	√				
Sustainable Commerce Research	Elective	3	√				
Information Technology & Service Innovation	Elective	3	√				
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	√				
Investment and financial management practice	Elective	3	√				
Topics in Artificial Intelligence	Elective	3	√				
Applied Decision Analysis	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		√			
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		√			
Data engineering and Applications	Elective	3		√			
Innovative Practical Applications of Artificial Intelligence	Elective	3		√			
Logical Thinking: Expression, Reasoning, and Decision-Making	Elective	3		√			
Artificial intelligence and stock data analysis	Elective	3		√			
Internship II	Elective	6		√			Classes are only

Elective courses 15 credits							
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	Note
							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 (Undergraduate courses that do not count toward graduation 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).
1. Each semester, course enrollment must be approved and signed by the advisor.
2. In elective courses, students must select at least one course from the management category and one course from the technical category.