

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

Approved and amended on March 5, 2007, by the 1nd Department Meeting of the 2nd Semester of the 95th Academic Year
Approved and amended on April 30, 2007, by the 2nd Department Meeting and Curriculum Meeting of the 2nd Semester of the 95th Academic Year
Approved and amended on October 29, 2012, by the 3rd Department Meeting and Curriculum Meeting of the 1st Semester of the 101th Academic Year
Approved and amended on December 3, 2012, by the 3rd Department Curriculum Meeting of the 1st Semester of the 101th Academic Year
Approved and amended on December 24, 2012, by the 5nd Department Meeting of the 1st Semester of the 101th Academic Year
Approved and amended on December 7, 2015, by the 1nd Department Curriculum Meeting of the 1st Semester of the 104th Academic Year
Approved and amended on May 11, 2016, by the 1nd College Curriculum Meeting of the 2nd Semester of the 104th Academic Year
Approved and Recorded on May 26, 2016, by the University Curriculum Meeting of the 2nd Semester of the 104th Academic Year
Approved and amended on April 27, 2020, by the 2nd Department Curriculum Meeting of the 2nd Semester of the 108th Academic Year
Approved and amended on May 12, 2020 by the 1nd College Curriculum Meeting of the 2nd Semester of the 108th Academic Year
Approved and amended on May 28, 2020 by the University Curriculum Meeting of the 2nd Semester of the 108th Academic Year
Approved and amended on March 13, 2024, by the 3rd Department Meeting of the 2nd Semester of the 112th Academic Year
Approved and Recorded on October 29, 2024, by the 1nd College Curriculum Meeting of the 1st Semester of the 113th Academic Year
Approved and amended on November 18, 2024, by the 1nd Department Curriculum Meeting of the 1st Semester of the 113th Academic Year

Required courses : 72 credits											
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	S1 Year 3	S2 Year 3	S1 Year 4	S2 Year 4	Note
Economics	Required	3	√								
Business Management	Required	3	√								
Introduction to Computer	Required	3	√								
Program Design	Required	3	√								
Calculus	Required	3		√							
Accounting	Required	3		√							
Object-Oriented Programming(I)	Required	3		√							
Introduction to Information Management	Required	3		√							
Object-Oriented Programming(II)	Required	3			√						
Statistics(I)	Required	3			√						
Computer Network	Required	3			√						
Marketing Management	Required	3			√						
Web Pages Programming	Required	3				√					
Database Management	Required	3				√					
Electronic Commerce	Required	3				√					
Statistics(II)	Required	3				√					
Management Information Systems	Required	3					√				

Required courses : 72 credits											
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	S1 Year 3	S2 Year 3	S1 Year 4	S2 Year 4	Note
Data Structures	Required	3					√				
Project Management	Required	3					√				
Systems Analysis and Design	Required	3					√				
Project Development(I)	Required	3						√			
Operating Systems	Required	3						√			
Project Development(II)	Required	3							√		
Information Ethics and Law	Required	3							√		

Elective courses 24 credits											
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	S1 Year 3	S2 Year 3	S1 Year 4	S2 Year 4	Note
Network Planning and Management Study	Elective	2			√						
Information Technology Trend and Practical Business English	Elective	3			√						
Data and Design Thinking	Elective	3				√					
Python Programing	Elective	3				√					
Customer Relationship and Service Management	Elective	3				√					
Organizational Behavior	Elective	3				√					
Social Media Management and Analysis	Elective	3				√					
SCM and Enterprise Resource Planning	Elective	3				√					
Creative Thinking and Problem Solving	Elective	3					√				
Information Technology & Service	Elective	3					√				

Elective courses 24 credits

Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	S1 Year 3	S2 Year 3	S1 Year 4	S2 Year 4	Note
Innovation											
Data Analysis Techniques and Applications	Elective	3					√				
Information and Technology Management	Elective	3					√				
Sustainable Commerce Research	Elective	3					√				
Smart Campus Information Technology Application Implementation Project	Elective	3					√				
Investment and Financial Management Practice	Elective	3					√				
Data Analytics and Visualization	Elective	3					√				
Patent Information for Technology Management	Elective	2						√			
Human Resource Management	Elective	3						√			
Mobile Commerce	Elective	3						√			
Advanced Network Protocol and Software Defined Network	Elective	2						√			
Enterprise Visiting	Elective	4						√			
Managerial Mathematics	Elective	3						√			
Digital Marketing	Elective	3						√			
Internet of Things	Elective	3						√			
Unmanned Vehicle Design and Application	Elective	3						√			

Elective courses 24 credits

Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	S1 Year 3	S2 Year 3	S1 Year 4	S2 Year 4	Note
Internet of Things Technology Application Implementation Project	Elective	3						√			
English Presentation Practice	Elective	3						√			
Financial and Economic News Study	Elective	3						√			
Data engineering and Applications	Elective	3						√			
Unmanned Aerial Vehicle Design	Elective	3						√			
Innovative Practical Applications of Artificial Intelligence	Elective	3						√			
Artificial Intelligence System and Practice I	Elective	1						√			
Open Data System and Practice I	Elective	1						√			
Social Network System and Practice I	Elective	1						√			
Information Technology and Practice I	Elective	1						√			
Internship II	Elective	6						√			Classes are only offered during the summer vacation.
Front-End Web Development	Elective	3							√		
Java Script Application Design	Elective	3							√		
Information Retrieval	Elective	3							√		
Information Technology and Corporate Strategy	Elective	3							√		
Knowledge Management Research	Elective	3							√		

Elective courses 24 credits											
Course Name	Type	Credits	S1 Year 1	S2 Year 1	S1 Year 2	S2 Year 2	S1 Year 3	S2 Year 3	S1 Year 4	S2 Year 4	Note
Advanced Database Management	Elective	3							√		
Machine Learning	Elective	3							√		
Artificial Intelligence System and Practice(II)	Elective	1							√		
Open Data System and Practice(II)	Elective	1							√		
Social Network System and Practice(II)	Elective	1							√		
Information Technology and Practice(II)	Elective	1							√		
Internship I	Elective	9								√	
Internship III	Elective	9								√	
Information Technology and Business Models	Elective	6									√
Data Mining and Knowledge Discovery	Elective	3									√
Supply Chain Management	Elective	3									√
Applications of Artificial Intelligence in Business	Elective	1									√

- The minimum required credits for graduation are 128, with 72 credits from required courses in the major (department), 8 credits of required courses designated by NUK, 24 credits from general education electives, and 24 credits from other electives. ① Among the other elective courses, students must complete at least 15 credits within the IM Department and can take up to 9 credits of compulsory or elective courses from other departments. ② Alternatively, students can select to complete all 24 elective credits by taking courses within the IM Department.
- For the Form 5 graduates : The student graduated from a senior secondary school in a foreign country, Hong Kong, or Macao, and their graduating year is academically equivalent to the second grade of a senior secondary school in Taiwan. Those admitted with equivalent qualifications must have a minimum of 140 credits upon graduation.

Students who take the courses that meet the requirements (Note 1) can apply for exemption before enrollment.

Note 1: Standards for Recognition of Equivalent Educational Levels for University Admission; Regulations Governing the Assessment and Recognition of Mainland Area Academic Records; Regulations Governing the Examination and Recognition of Educational Records from Hong Kong and Macao; Students who take courses organized by Taiwan's universities/ colleges Continuing Education Programs.

- NUK fulltime undergraduate students are required to pass the basic competency tests for graduation:
 1. English proficiency qualification examination (according to NUK's Implementation Regulations for Graduation Requirements on English Proficiency Assessment.)
 2. Information literacy qualification examination (according to NUK's Implementation Regulations for the Basic Information Competence Assessment.)
- According to NUK's graduation rules, the Department of Information Management recognizes the professional applied law course Information Ethics and Law (3 credits).
- The minimum number of credits required for graduation from Department of Information Management includes credits from professional applied law courses.