National University of Kaohsiung, Department of Information Management, Undergraduate 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 3nd Department Meeting and Curriculum Meeting of the 1nd Semester of the 101th Academic Year

Approved and amended on December 3, 2012, by the 3nd Department Curriculum Meeting of the 1nd Semester of the 101th Academic Year

Approved and amended on December 24, 2012, by the 5nd Department Meeting of the 1nd Semester of the 101th Academic Year

Approved and amended on December 7, 2015, by the 1nd Department Curriculum Meeting of the 1nd 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 February 13, 2023, by the 1nd Department Meeting of the 2nd Semester of the 111th Academic Yea

Approved and amended the elective courses on February 13, 2023, by the 1nd Department Meeting of the 2nd Semester of the 111th Academic Yea

Approved and Recorded on October 29, 2024 by the 1nd College Curriculum Meeting of the 1nd Semester of the 113th Academic Year

Approved and amended the elective courses on November 18, 2024, by the 1nd Department Meeting of the 1nd Semester of the 113th Academic Yea

| **Required courses：72 credits** |
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| 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 |  |  |  |  | $$√$$ |  |  |  |  |
| 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** |
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| 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 Innovation | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| 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 |  |  |  |  | $$√$$ |  |  |  |  |
| Advanced Database Management | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Machine Learning | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Patent Information for Technology Management | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| 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 |  |  |  |  |  | $$√$$ |  |  |  |
| Internet of Things Technology Application Implementation Project | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| English Presentation Practice | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Financial and Economic News Study | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Innovative Practical Applications of Artificial Intelligence | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Unmanned Aerial Vehicle Design | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Data engineering and Applications | 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 |  |  |  |  |  |  | $$√$$ |  |  |
| 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. ①Among 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.