National University of Kaohsiung, Department of Information Management, Undergraduate Required and Elective Courses List

For students admitted after the 2021 Academic Year

民國96年3月5日95學年度第2學期第1次系務會議修正通過

民國96年4月30日95學年度第2學期第2次系務暨課程會議修正通過

民國101年12月3日101學年度第1學期第3次課程委員會議修正通過

民國101年10月29日101學年度第1學期第3次系務會議與課程會議修正通過

民國101年12月24日101學年度第1學期第五次系務會議修正通過

民國104年12月7日104學年度第1學期第1次課程委員會修正通過

民國105年5月11日104學年度第2學期第1次院程程委員會通過

民國105年5月26日104學年度第2學期校課程會議備查

民國109年4月27日108學年度第二學期第二次課程委員會會議修通過過

民國109年5月12日108學年度第二學期第一次院課程委員會通過

民國109年5月28日108學年度第二次校課程委員會會議通過

| **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 |
| Internet and Multimedia Applications | Elective | 3 |  |  | $$√$$ |  |  |  |  |  |  |
| Technology English | Elective | 3 |  |  | $$√$$ |  |  |  |  |  |  |
| Network Planning and Management Study | Elective | 2 |  |  | $$√$$ |  |  |  |  |  |  |
| Advanced Java Theory and Practice | Elective | 2 |  |  | $$√$$ |  |  |  |  |  |  |
| Data and Design Thinking | Elective | 3 |  |  |  | $$√$$ |  |  |  |  |  |
| Python Programing | Elective | 3 |  |  |  | $$√$$ |  |  |  |  |  |
| Organizational Behavior | Elective | 3 |  |  |  | $$√$$ |  |  |  |  |  |
| Introduction to Knowledge Management | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Customer Relationship and Service Management | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Deep Neural Network I | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Deep Reinforcement Learning I | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Information and Technology Management | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Data Analytics and Visualization | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Investment and Financial Management Practice | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Information Systems Research | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Information Technology Trend and Practical Business English | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Creative Thinking and Problem Solving | Elective | 3 |  |  |  |  | $$√$$ |  |  |  |  |
| Mobile Commerce | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Human Resource Management | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| SCM and Enterprise Resource Planning | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| English Presentation Skills | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Front-End Web Development | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Digital Marketing | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Social Media Management and Analysis | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Internet of Things | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Unmanned Vehicle Design and Application | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Indoor Localization Tracking and Unmanned Vehicle Application | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Enterprise Visiting | Elective | 4 |  |  |  |  |  | $$√$$ |  |  |  |
| Managerial Mathematics | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Introduction to Deep Learning | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Application of Deep Learning Techniques to Real World Problems | Elective | 3 |  |  |  |  |  | $$√$$ |  |  |  |
| Deep Neural Network II | Elective | 2 |  |  |  |  |  | $$√$$ |  |  |  |
| Deep Reinforcement Learning Ⅱ | Elective | 2 |  |  |  |  |  | $$√$$ |  |  |  |
| Deep Neural Network Research | Elective | 2 |  |  |  |  |  | $$√$$ |  |  |  |
| 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 |
| Information Technology and Corporate Strategy | Elective | 3 |  |  |  |  |  |  | $$√$$ |  |  |
| Advanced Database Management | Elective | 3 |  |  |  |  |  |  | $$√$$ |  |  |
| Advance Network Management | Elective | 3 |  |  |  |  |  |  | $$√$$ |  |  |
| Information Retrieval | Elective | 3 |  |  |  |  |  |  | $$√$$ |  |  |
| Apps Programing | Elective | 3 |  |  |  |  |  |  | $$√$$ |  |  |
| Internship I | Elective | 9 |  |  |  |  |  |  | $$√$$ |  |
| Internship Ⅲ | Elective | 3 |  |  |  |  |  |  | $$√$$ |  |
| Java Script Application Design | 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 |  |  |  |  |  |  | $$√$$ |  |  |
| Digital Games Design | Elective | 3 |  |  |  |  |  |  |  | $$√$$ |  |
| Supply Chain Management | Elective | 3 |  |  |  |  |  |  |  | $$√$$ |  |
| Knowledge Management Research | Elective | 3 |  |  |  |  |  |  |  | $$√$$ |  |
| Information Technology and Business Models | Elective | 3 |  |  |  |  |  |  |  | $$√$$ |  |
| Data Mining and Knowledge Discovery | Elective | 3 |  |  |  |  |  |  |  | $$√$$ |  |
| Practices in Digital Games Design | Elective | 3 |  |  |  |  |  |  |  | $$√$$ |  |
| Web Consumer Behavior | Elective | 3 |  |  |  |  |  |  |  | $$√$$ |  |

* The minimum required credits for graduation are 128, with 72 credits of compulsory courses in the major (department), 8 credits of compulsory courses designated by NUK, 24 credits of general education electives, and 24 credits of electives. ①Among the 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 daytime 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.