

Course Requirements

☐ Undergraduate Program

General Course			Basic Course			Major Course			Elective Course	Research	Total
Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal			
7 (8 AU)	21	28 (8 AU)	23	9	32	21	24	45	22	3	130

A. Graduation Credits

At least 130 credits in total

B. General Course Requirements: At least 28 credits

- Mandatory General Course: 7 credits and 8 AU (1 AU means 1 hour activity / work a week for a semester)
  - Students who entered the KAIST in or before 2006
    - "English I," "English II," and "Writing" : 7 credits
    - 4 AU of "Community Service"(64 hours), 4AU of "Physical Education"(64 hours) : 8 AU
  - Students who enter the KAIST in or after 2007
    - "English Communication I", "English Communication II", "English Reading & Writing", and "Writing" : 7 credits
    - 2 AU of "Community Service"(32 hours), 4AU of "Physical Education"(64 hours), 2AU of "Humanity/Leadership": 8 AU
- ※ AU is not counted for GPA but required for graduation.
- Elective General Courses in Humanities & Social Science: at least 21 credits (at least 7 courses)
  - Take (15 credits) 1 course in each of 5 divisions: Science Technology; Literature and Art; History and philosophy; Social Science; Foreign Language and Linguistics; the remaining courses can be chosen regardless of division.
  - ※ To complete courses in the Foreign Language and Linguistics Department, students should take at least 1 course in a second foreign language.

C. Basic Course Requirements: at least 32 credits

- Mandatory Basic Courses: 23 credits (Take one from each of the following 9 categories)
  - ① 1 course: Fundamental Physics I (3), General Physics I (3), or Advanced Physics I (3)
  - ② 1 course: Fundamental Physics II (3), General Physics II (3), or Advanced Physics II (3)
  - ③ 1 course of General Physics Lab I (1)
  - ④ 1 course of Basic Biology (3) or General Biology (3)
  - ⑤ 1 course of Calculus I (3) or Honor Calculus I (3)
  - ⑥ 1 course of Calculus II (3) or Honor Calculus II (3)
  - ⑦ 1 course: Basic Chemistry (3), General Chemistry I (3) or Advanced Chemistry (3)
  - ⑧ 1 course of General Chemistry Lab. I (1) or Advanced Chemistry Lab II (1)
  - ⑨ 1 course of Basic Programming (3) or Advanced Programming (3)
- Elective Basic Courses: at least 9 credits (MAS109, IE200)

D. Major Course Requirements: at least 45 credits

- Mandatory Major Courses: at least 21 credits
 

Principle of Management, Statistics for Management I [ Substitution: MGT 212 statistics for management II ], Theory of Microeconomics, Introduction to Information Systems, Managing people and Organization, Principles of Accounting, Operations Research [ Substitution: MGT506 Mathematical Programming ].
- Elective Major Courses: at least 24 credits.
  - ※ Major courses of following department

- Electrical Engineering & Computer Science
- Mathematics, Industrial Engineering
- Business Economics Program

E. Elective Course Requirements: at least 22 credits

F. Research Course Requirements: at least 3 credits

- Please be sure to take 3 credit hours for graduation research.

G. English Language Requirements for Graduation

- One of the following requirements should be satisfied for graduation before entering school or while in school: (Applied to the students who entered in and after the 1998 academic year).
  - PBT TOEFL (ITP) score: at least 560
  - CBT TOEFL score: at least 220
  - iBT TOEFL score: at least 83
  - TOEIC score: at least 760
  - TEPS score: at least 670

H. Minor

- Minor: at least 18 credits
  - Students should take both Introduction to Economics and Introduction to OR. These are taken from among the elective courses in humanities and the general electives. In addition, six more courses (18 credits) are required from the mandatory and elective courses in Management Engineering to include Principles of Business Administration.

□ Graduate Programs

1) Master's Program: at least 45 credits

(at least 36 credits for coursework + at least 9 research credits).

General Courses	Major Courses		Research	Total
	Mandatory	Elective		
3	12	21	9	45

○ General Courses: 3 credits

CC511 Probability and Statistics

[ substitution: MGT500 Probability and Statistics

MGT502 Statistical Decision Analysis and Forecasting ]

○ Mandatory Major Courses: at least 12 credits

MGT502 Statistical Decision Analysis and Forecasting

[ substitution: MGT665 Econometrics and MGT602 Forecasting Theory and Its Applications ]

MGT506 Mathematical Programming

[ substitution: MGT700 Probability Models with Applying ]

MGT564 Microeconomic Analysis

[ substitution: MGT668 Microeconomic Theory ]

MGT611 Organizational Behavior Theory

○ Elective Major Courses: at least 21 credits

① 3 Courses among

MGT560 Financial Accounting

MGT610 Research Methods

MGT613 Strategic Management

MGT620 Marketing theory

MGT660 Advanced Financial Management

MGT665 Econometrics

MGT700 Probability Models with Applications

② 1 Course among

Basic Laws of Management Information Technology and Application

MGT542 Management Informations System

MGT587 Introduction of Internet Technology

○ Research: at least 9 credits

2) Doctoral Program: at least 84 credits

(at least 54 credits for coursework + at least 30 research credits)

General Courses	Major Courses		Research	Total
	Mandatory	Elective		
3	12	39	30	84

○ General Courses: 3 credits

CC511 Probability and Statistics

[ substitution: MGT500 Probability and Statistics

MGT502 Statistical Decision Analysis and Forecasting ]

○ Mandatory Major Courses: at least 12 credits

MGT502 Statistical Decision Analysis and Forecasting MGT506 Mathematical Programming

MGT564 Microeconomic Analysis

MGT611 Organizational Behavior Theory

○ Elective Major Courses: at least 39 credits

○ Research: at least 30 credits

- Personal Research : Be admitted 7 credit

- Don't admit credits to take in Master's degree