

## Course Requirements

### □ Undergraduate Program

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

#### A. Graduation Credits

At least 130 credits and 9 AU 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)  
1AU of "Research Ethics and Safety Management II" : 9 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", 1AU of "Research Ethics and Safety Management II" : 9 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)
  - At least 21 credits including at least 1 course in each of 2 divisions among 5 (Science Technology;  
Literature and Art; History and Philosophy; Social Science; Foreign Language and Linguistics) or at least 1  
course in each of 2 divisions among 3 (Humanity, Society, Culture & Art)
  - ※ 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 29 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 6 credits

#### 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
    - Mathematical Sciences, Industrial & Systems Engineering
    - Management Science
- E. Elective Course Requirements: at least 25 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:
    - PBT TOEFL (ITP) score: at least 560
    - CBT TOEFL score: at least 220
    - IBT TOEFL score: at least 83
    - IELTS score: at least 6.5
    - TOEIC score: at least 720 (New TOEIC; after May 2006) or 760 (before April 2006)
    - TEPS score: at least 599 (New TOEIC; after March 1st. 2007) or 670 (before Feb. 28. 2006)
- 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 and 1AU  
(at least 36 credits for coursework + at least 9 research credits).

General Courses	Major Courses		Research	Total
	Mandatory	Elective		
3 (1AU)	12	21	9	45

- General Courses: 3 credits & 1AU
  - CC020 Research Ethics and Safety Management I(1AU)
  - 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

[ substitution: MGT572 Financial Statement Analysis, MGT644 Advanced Accounting ]  
 MGT610 Research Methods in Behavioral Science      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

- English Proficiency Requirement
  - Student are required to complete at least two BUS900 Courses.
  - This requirement is waived for student who have obtained at least S Level of Oral Proficiency Interview(OPI).
- Research: at least 9 credits
  - Seminar: 1 credit (required)
  - Personal Research : up-to 3 credit  
 ("CC010 Leadership Lecture" is counted as seminar)

2) Doctoral Program: at least 84 credits and 1AU  
 (at least 54 credits for coursework + at least 30 research credits)

General Courses	Major Courses		Research	Total
	Mandatory	Elective		
3 (1AU)	12	39	30	84

- General Courses: 3 credits & 1AU  
 Same as master's program requirement.(Not required, if you have already fulfilled this in the master's program.)
- Mandatory Major Courses: at least 12 credits
  - Same as master's program requirement
- Elective Major Courses: at least 39 credits
- English Proficiency Requirement: Same as master's program.
- Research: at least 30 credits
  - Personal Research : no more than 7 credit
  - Don't admit credits to take in Master's degree