

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	22	30	52	15	3	130

A. Graduation Credits

At least 130 credits in total are required for the B.S. degree.

B. General Courses

28 credits in minimum must be accumulated in courses of liberal arts.

- Mandatory General Courses: 7 credits and 8 AU (1 AU means 1 hour activity / work a week per 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 credit hours (or 7 courses in minimum).

15 credit hours should include one course in each division: humanity and social science, i.e., Science Technology; Literature and Art; History and philosophy; Social Science; Foreign Language and Linguistics; beyond these required elective courses, students are free to choose any courses in any division.
- ※ As for completing course of Foreign Language and Linguistics division, students are required to take at least one foreign language in addition to English.

C. Basic Courses: 32 credits at least

(It is applied to the students who entered in or after the 2000 academic year; students who entered before 2000 should refer to the course requirements for each year.)

- Mandatory Basic Courses: 23 credits (Take 1 course among the following courses)
 - 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: 9 credits at least

(Including Differential Equations and Applications, Applied Mathematical Analysis)

D. Major Courses: 52 credits at least

- Mandatory Major Courses: 22 credits at least

Basic Mechanical Practice, Aerospace Engineering Lab. I, Thermodynamics, Fluid Mechanics, Solid Mechanics, Dynamics, Aerospace Engineering Lab. II, Aerospace System Design I.

- Elective Major Course : 30 credits at least

E. Elective Courses: 15 credits at least

F. Research Courses: 3 credits at least

- It is required to take B.S. thesis study or Aerospace System Design II. Up to 4 credits are accumulated for individual study.

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 : 560 at least
 - CBT TOEFL score : 220 at least
 - iBT TOEFL score: at least 83
 - TOEIC score : 760 at least
 - TEPS score : 670 at least

H. Minor and Double Major

- Minor : 21 credits at least in AE major including 4 courses out of 8 required major courses
- Double Major :

It is required to fulfill the requirement of the major courses of the corresponding department.

※ Student who entered KAIST in the 2004 academic year or before can choose the current course requirement or the requirement of the corresponding year as he/she wishes.

□ Graduate Course

1) Graduate program leading to the degree of Master of Science.

36 credit hours at minimum, 24 from course work plus at least 12 from thesis research, are required to be eligible for this degree.

General Course	Major Course		Research (including seminar credits)	Total
	Mandatory	Elective		
3	0	21	12	36

A. Graduation Credits: 36 credits at least

B. Mandatory General Course Requirements: 3 credits

- Select one course from the following (CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials Science and Engineering, CC513 Engineering Economics and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies).
- Be sure to take CC010 Leadership Class, for which credits are not granted (mandatory for students who entered in or after the 2002 academic year, but not mandatory for foreign students and general scholarship students).

C. Mandatory Major Course Requirements: None

D. Elective Major Course Requirements: 21 credits at least

- Mandatory: 6 credits
- Elective: 15 credits at least

E. Research Credits: 12 credits at least (including seminar 2 credits)

※ For the students who entered in or after the 2003 academic year should consult with the department office.

2) Graduate program leading to a Doctoral degree

72 credit hours at minimum, 42 from course work plus at least 30 from thesis research, are required for eligibility.

General Course	Major Course		Research (including seminar credits)	Total
	Mandatory	Elective		
3	0	39	30	72

A. Graduation Credits : 72 credits at least in total

B. General Course Requirements: 3 credits (the same as the Master's program; students who already earned 3 credits from their Master's course do not need to obtain 3 credits again).

C. Mandatory Major Course Requirements: None

D. Elective Major Course Requirements: 39 credits at least

- Mandatory: 6 credits

- Elective: 15 credits at least

E. Research Credits: 30 credits at least (including seminar credits).

※ For the students who entered in or after the 2003 academic year should consult with the department office.

※ The credits earned in the Master's course work can be used towards the Doctoral degree (except research credits).