

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.

- ※ Students who entered KAIST in the 1996 academic year or before should take at least 140 credits in total to be eligible 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)

- English I, English II, Writing Course: 7 credits

- ※ Students who enter school with a high TOEFL score earn credits for English I or II

- AU is not counted for GPA evaluation 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: at least 32 credits

(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 Differential & Integral I (3) or Advanced Differential & Integral I (3)
 - ⑥ 1 course of Differential & Integral II (3) or Advanced Differential & Integral 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

(Including Differential Equations and Applications, Applied Mathematical Analysis)

D. Major Courses: at least 52 credits

- Mandatory Major Courses: at least 22 credits

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

- Elective Major Course : at least 30 credits.

E. Elective Courses: at least 15 credits

F. Research Courses: at least 3 credits

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

H. Minor and Double Major

- Minor : at least 21 credits 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 of 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 coursework 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: at least 36 credits

B. Mandatory General Course Requirements: 3 credits

- Select one course from the following (CC500 Science Writing in English, 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 Leadership Class (CC010), 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: at least 21 credits.

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

E. Research Credits: up to 12 credits (including seminar 2 credits).

※ for the students who entered in or after the 2003 academic year.

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 : at least 72 credits 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: at least 39 credits.

- Mandatory: 6 credits

- Elective: at least 15 credits

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

※ for the students who entered in or after the 2003 academic year.

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