

Course Requirements

□ Undergraduate Program

General Course			Basic Course			Major Course			Elective Course	Research	Total
Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal			
6 (9AU)	21	27 (9 AU)	26	6	32	22	30	52	12	3	130

A. Graduation Credits

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

※ A cumulative grade point average of 2.0 or higher out of a possible 4.3 in all coursework

B. General Courses

At least 27 credits and 9AU(applicable to students entering KAIST in 2009 and onward; for those who have entered KAIST before 2009, refer to the Course Completion Requirements by Year of Admission)

◦ Mandatory General Courses:

- Students entering KAIST in 2009 and onward : 6 credits and 9AU

English Communication(1), Critical Thinking in English(2), Writing(3), Physical Education(4AU), Community Service(2AU), Humanity/Leadership(2AU), Ethics and Safety II (1AU)

- Students entering KAIST between 2007 and 2008 : 7 credits and 9AU

English Communication I(1), English Communication II(1), English Reading&Writing(2), Writing(3), Physical Education(4AU), Community Service(2AU), Humanity/Leadership(2AU), Ethics and Safety II (1AU)

* English Communication I → English Communication

English Communication II → English Conversation

English Reading&Writing → Critical Thinking in English

◦ Elective General Course in Humanities & Social Science : at least 21 credits

- Students entering KAIST in 2009 and onward : at least 21 credits including at least 1 course in each of 2 divisions among 3 divisions(Humanity, Society, Culture & Art)

- Students having entered KAIST before 2009 : at least 21 credits including at least 1 course in each of 2 divisions among 5 divisions(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 divisions(Humanity, Society, Literature&Art)

- Students entering KAIST in 2007 and onward should earn at least 18 credits through English lectures among the 21 credits required as Elective General Courses in Humanities & Social Science.

※ Students having a double major take 12 credits without considering categories. (Students entering KAIST in 2007 and onward should take 12 credits through English lectures.)

C. Completion of Basic Courses: at least 32 credits (applicable to students entering KAIST in 2008 and onward; for those who have entered KAIST before 2009, refer to the Course Completion Requirements by Year of Admission)

◦ Mandatory Basic Courses: 26 credits

① 1 course among Fundamental Physics I (3), General Physics I (3), and Advanced Physics I (3)

② 1 course among Fundamental Physics II (3), General Physics II (3), and Advance 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 among Basic Chemistry (3), General Chemistry I (3), and Advanced Chemistry (3)

- ⑧ 1 course of General Chemistry Lab I (1) or Advanced Chemistry Lab (1)
 - ⑨ 1 course of Basic Programming (3) or Advanced Programming (3)
 - ⑩ Freshman Design Course : Introduction to Design and Communication (3)
 - ※ Students having entered KAIST in 2007 or before : 23 credits (①~⑨)
 - Elective Basic Courses: at least 6 credits (including at least two courses among MAS109, MAS201 and MAS202)
 - ※ Students with a double major take at least one course among MAS109, MAS201, MAS202
- 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
- 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.
 - ※ Students having a double major are exempt.
- G. English Proficiency Requirements upon Graduation
- Students are required to meet one of the following requirements on English proficiency before entering KAIST or during their years of enrollment: 560 points in PBT TOEFL; 220 points in CBT TOEFL; 83 points in IBT TOEFL; 6.5 points in IELTS; 720 points or 760/775 points in TOEIC (see below); or 599 points or 670/690 points in TEPS (see below).
 - ※ Criteria for TOEIC and TEPS scores
 - Students submitting scores from new TOEIC (held in May 2006 and onward) or TEPS held on March 1, 2007 and onward: 720 points in TOEIC; or 599 points in TEPS
 - Students submitting scores from old TOEIC (held before April 2006) or TEPS held before February 28, 2007:
 - Students entering KAIST in 2008 and onward: 775 points in TOEIC; or 690 points in TEPS
 - Students entering KAIST in 2007 or before: 760 points in TOEIC; or 670 points in TEPS
 - ※ Requirements for a double major : 40 credits including mandatory major courses
 - ※ Requirements for a minor : 21 credits at least in AE major including 4 courses out of 8 required major courses

※ General and basic courses in undergraduate program are different from years of admission; therefore, students entering KAIST before 2009 should refer to the Course Completion Requirements by Year of Admission.

□ Graduate Course

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

33 credit hours at minimum, 21 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 and 1AU	0	18	12	33

A. Graduation Credits: 33 credits at least

B. Mandatory General Course Requirements: 3 credits and 1AU

- 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, CC532 Collaborative System Design & Engineering).
- CC010 Special Lecture on Leadership(non-credit, this applies to students entering KAIST in 2002 and onward; general scholarship students, foreign students are excluded)
- CC020 Ethics and Safety I(1AU)

- C. Mandatory Major Course Requirements: None
- D. Elective Major Course Requirements: 18 credits at least
- E. Research Credits: 12 credits at least

2) Graduate program leading to a Doctoral degree

60 credit hours at minimum, 30 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 and 1AU	0	27	30	60

- A. Graduation Credits : 60 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).
 - CC020 Ethics and Safety I(1AU)
 - C. Mandatory Major Course Requirements: None
 - D. Elective Major Course Requirements: 27 credits at least
 - E. Research Credits: 30 credits at least
- ※ The credits earned in the Master's course work can be used towards the Doctoral degree (except research credits).