

Course Requirements

□ Undergraduate Program

General Courses			Basic Courses			Major Courses			Elective Courses	Research	Total
Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal			
7(8AU)	21	28(8AU)	23	9	32	36	13	49	18	3	130

A. Graduation Credits

At least 130 credits total

B. General Course Requirements: at least 28 credits.

- Mandatory General Courses : 7 credits and 8 AU (1 AU means 1 hour activity/work a week for a semester).
 - English I, English II, Writing Course: 7 credits
 - ※ The student who enter with a high TOEFL score can use this to fulfil required courses English I or II.
 - Community Service (4 AU: 64 hours) and Physical Education (4 AU: 64 hours)
 - ※ AU is not counted for GPA but is mandatory for graduation.
- Elective Courses in Humanities & Social Science: at least 21 credits (at least 7 courses).
 - Take (15 credits) 1 course from each of 5 divisions: Science Technology; Literature and Art; History and philosophy; Social Science; Foreign Language and Linguistics
 - Remaining courses can be chosen regardless of the division.
 - ※ Requirement for Foreign Language and Linguistics: students should take at least 1 course of a second foreign language other than English.

C. Basic Course Requirements: at least 32 credits.

- Mandatory Basic Courses: 23 credits (1 course from each of the following 9 categories)
 - 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 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 Differentials & Integrals I (3) or Advanced Differentials & Integrals I (3)
 - ⑥ 1 course of Differentials & Integrals II (3), or Advanced Differentials & Integrals 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. II (1)
 - ⑨ 1 course of Basic Programming (3) or Advanced Programming (3)
- Elective Basic Courses:
 - at least 9 credits (General Chemistry II (3), General Chemistry Lab. II (1))

D. Major Course Requirements: at least 49 credits.

- Mandatory Major Courses : at least 36 credits
 - Physical Chemistry I and II, Physical Chemistry Lab., Organic Chemistry I and II, Organic Chemistry Lab. I and II, Analytical Chemistry, Analytical Chemistry Lab., Inorganic Chemistry I and II, Inorganic Chemistry Lab., Biochemistry I, Biochemistry Lab.
- Elective Major Courses : at least 13 credits

E. Elective Course Requirements: at least 18 credits.

F. Research Course Requirements: at least 3 credits.

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

G. English Language Requirements for Graduation.

- One of the following should be satisfied for graduation before entering or while enrolled at KAIST:

- 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 Major: at least 21 credits
 - Mandatory Major Course: 12 credits, Elective Major Course: 9 credits.
- Double Major : at least 49 credits
 - Chemistry Major Course 49 credits

□ Master's Program

Mandatory General Courses	Elective Major Courses	Research (including seminar credits)	Total
3	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: 9 credits (500 levels from more than two subfields)
- Elective: at least 12 credits

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

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

□ Doctoral Program

General Courses	Elective Major Courses	Research (including seminar credits)	Total
3	36	33	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: 9 credits (500 levels from more than two subfields)
- Elective: at least 27 credits

E. Research Credits: at least 33 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).