

Course Requirements

□ Undergraduate Requirement

General Course			Basic Course			Major Course			Elective	Research	Total
Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal			
6(9AU)	21	27(9AU)	26	6	32	9	40	49	19	3	130

- A. Graduation Credits : at least 130 credits in total
- ※ A cumulative grade point average of 2.0 or higher out of a possible 4.3 in all coursework
- B. General Course : At least 27 credits and 9AU(applicable to students entering KAIST in 2011 and thereafter; for those who have entered KAIST in 2010 and before, refer to the Course Completion Requirements by Year of Admission)
- Mandatory General Course
 - Students entering KAIST in 2011 and thereafter: 6 credits and 9AU
English Communication(1), Critical Thinking in English(2), Writing(3), Physical Education(4AU), Humanity/Leadership(2AU), Ethics and Safety II(1AU), Happy College Life(1AU), Exciting College Life(1AU)
 - Students entering KAIST between 2009 and 2010: 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
 - Students entering KAIST between 1998 and 2006: 7 credits and 9AU
English I(2), English II(2) Writing(4AU), Community Service(2AU), Humanity/Leadership(2AU), Ethics and Safety II(1AU)
 - * English I → English Communication
 - English II → Critical Thinking in English
 - Elective General Course in Humanities & Social Science : at least 21 credits
 - Take (6 credits) 1 course of each of the following 2 categories among 3 categories: Humanity, Society and Literature and Arts; the rest can be chosen regardless of the category. (applicable to students entering KAIST in 2009 and thereafter; for those who have entered KAIST in 2008 and before, refer to the Course Completion Requirements by Year of Admission)
 - Students entering KAIST between 2007 and 2010 should earn at least 9 credits through lectures in English 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 between 2007 and 2010 should take 6 credits through lectures in English.)
 - ※ The requirement of taking lectures in English as Elective General Courses in Humanities & Social Science is not applied to students entering KAIST in 2011 and thereafter.
- C. Completion of Basic Courses: at least 32 credits (applicable to students entering KAIST in 2012 and thereafter; for those who have entered KAIST in 2011 and before, refer to the Course Completion Requirements by Year of Admission)
- Mandatory Basic Courses: 23 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)
- Students having entered KAIST in 2007 or before : 23 credits (①~⑨)

- Students having entered KAIST between 2008 and 2011: 26 credits((①~⑨), Freshman Design Course: Introduction to Design and Communication)(3))

- Elective Basic Courses: at least 9 credits
 - ※ Students having a double major take 3 credits.

D. Completion of Major Courses: at least 49 credits

- Mandatory Major Courses: 9 credits
 - Basic Mechanical Practice(3), Mechanical Engineering Laboratory(3), Capstone Design I(3)
- Elective Major Courses: at least 40 credits.
 - Select at least 6 courses out of 8 courses:
 - Thermodynamics(3), Fluid Mechanics(3), Mechanics of Materials(3), Dynamics(3), Applied Electronics(3), Engineering Design(3), Modeling and Control of Engineering Systems(3), Understanding of Materials and Processing(3)

E. Completion of Eletive Courses: at least 18 credits

F. Completion of Research Courses: at least 3 credits

- B.S Thesis Research (3)
- ※ Students having a double major are exempt.

G. English Language Requirement

- Before entering or during studying at KAIST, students should obtain the minimum required score or higher from one of the following: TOEFL, TOEIC, TEPS and IELTS.
- Students who have hearing impairment level 3 or above should obtain the minimum required score or higher, excluding listening.

1) Students who have submitted past scores for TOEIC (before April 2006) or TEPS (before February 28, 2007)

- Students admitted in 2008 or later

Classification	iBT TOFEL	PBT TOFEL	CBT TOFEL	TOEIC	TEPS	IELTS
General qualification score	83	560	220	775	690	6.5
Qualification score for hearing impairment level 3 or above	62	372	146	387	414	4.8

- Students admitted in 2007 or earlier

Classification	iBT TOFEL	PBT TOFEL	CBT TOFEL	TOEIC	TEPS	IELTS
General qualification score	83	560	220	760	670	6.5
Qualification score for hearing impairment level 3 or above	62	372	146	380	402	4.8

- 2) Students who have submitted NEW TOEIC score taken after May 2006 or TEPS score taken after March 1, 2007

Classification	iBT TOFEL	PBT TOFEL	CBT TOFEL	TOEIC	TEPS	IELTS
General qualification score	83	560	220	720	599	6.5
Qualification score for hearing impairment level 3 or above	62	372	146	360	359	4.8

H. Graduation Requirements for Foreign Students: TOPIK (Test of Proficiency in Korean)

- Undergraduate foreign students are required to obtain level 2 or higher score in TOPIK before entering or during studying at KAIST. ※ Applies to students entering KAIST in 2013 and thereafter

I. ME Minor and ME Double Major

- ME Minor: at least 21 credits in major courses including
 - Basic Mechanical Practice(3), Mechanical Engineering Laboratory(3), Capstone Design I(3), Selective Major Courses at least 4 courses out of 8 Basic ME Elective courses
- ME Double Major:
 - 40 credits including mandatory major courses

□ Master's and Doctoral Programs

1) Master's Program

Mandatory General	Mandatory Major	Elective	Research	Total
3 + 1AU	-	18	12 or less	33

- Required Credits for Graduation: at least 33 credits.
- Mandatory General Course(CC): 3 credits and 1AU
 - CC010 Special Lecture on Leadership (non-credit, this applies to students entering KAIST in 2002 and thereafter; general scholarship students, foreign students, and Changwon-KAIST program students are excluded)
 - CC020 Ethics and Safety I (1AU)
 - 1 course among Scientific Writing, Introduction to Computer Application, Probability and Statistics, Introduction to Materials and Engineering , Engineering Economy and Cost Analysis, Introduction to Instruments, Entrepreneurship and Business Strategies.
 - CC532 Collaborative System Design and engineering credit is granted to only Renaissance Program students. Changwon-KAIST program students and general scholarship students.
- Mandatory Major Courses: NONE
- Elective Courses: at least 18 credits (Should take more than 12 credits offered by the ME department)
 - For dual degree students (except KAIST-TUB dual degree) can transfer credits to mechanical engineering course if selective course is already granted credit recognition in other university)
- Research: at least 12 credits (Seminar 2credits : foreign students Changwon-KAIST program students and general scholarship students of after 2009 admission are exempt from seminar credits)

2) Doctoral Program

Mandatory General	Mandatory Major	Elective	Research	Total
3 + 1AU	-	33	30 or more	66

- Required Credits for Graduation: at least 66 credits in total.
- Mandatory General Course(CC): 3 credits and 1AU
 - 1 course among Scientific Writing, Introduction to Computer Application, Probability and Statistics, Introduction to Materials and Engineering , Engineering Economy and Cost Analysis, Introduction to

Instruments, Entrepreneurship and Business Strategies.

- CC020 Ethics and Safety I (1AU)
- Mandatory Major Courses: NONE
- Elective Courses: at least 33 credits
- Research: at least 30 credits