

Course Requirements

□ Undergraduate Courses

General Courses			Basic Courses			Major Courses			Elective Courses	Research	Total
Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal			
6(9AU)	21	27(9AU)	23	9	32	18	30	48	20	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: Including General Chemistry II (3) at least 9 credits
 - Students entered KAIST before 2011 should earn at least 6 credits including General Chemistry II.
 - * Students having a double major should earn at least 6 credits including General Chemistry II.
 - Students entered KAIST before 2011 should earn at least 3 credits including General Chemistry II.
- D. Major Course: at least 48 credits
- Mandatory Major Courses : at least 18 credits
Molecular Biology, Biochemistry I, Biochemistry II, Biochemistry Experiment, Cell Biology, Cell Biology Experiment.
 - Elective Major Courses : at least 30 credits
Four Chemistry major courses (CH221 Organic Chemistry I, CH223 Organic Chemistry II, CH261 Analytical Chemistry, CH325 Biological Organic Chemistry) and three Bio&Brain Engineering major courses (BiS225 Anatomy & Physiology, BiS432 Biomedical Statistics, BiS438 Bioinformatics) are also considered as elective major courses.
- E. Elective Courses: at least 20 credits
- Students entered KAIST before 2007 should earn at least 25 credits.
 - Students entered KAIST in 2008 or after 2008 should earn at least 22 credits.
- F. Research Course: at least 3 credits
- Thesis Research (Required): at least 3 credits
 - Specified Research (Elective): at least 1 credits
 - Seminar (Elective): at least 2 credits
 - ※ Students having a double major are exempt.
- G. English Proficiency Requirements upon Graduation
- 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. Requirements for Double Major and Minor

- Double major : 40 credits including mandatory major courses
- Minor : Including 12 credits of subject with the ten-digits of subject number in 0, 21 credits or more major courses have to be completed.

※ General and basic courses in undergraduate program are different from years of admission; therefore, students entering KAIST in 2011 and before should refer to the Course Completion Requirements by Year of Admission.

※ Follow-up measures : These requirements apply to all students enrolling from 2010 fall semester.

- Students who are currently enrolled should satisfy either the previous or the revised version of the Course Completion Requirements.
- Students who wish to graduate with the previous version of the requirements but have not taken the course Evolution may replace it with one of the elective major courses.
- Course replacement that has been accepted as a result of changes made to the major courses offered (Laboratory in Cell Biology & Genetics → Cell Biology Experiment)

□ Master's Program

Mandatory General	Mandatory Major	Elective	Research	Total
3 + 1AU	6	9	15	33

1) Thesis Master's Degree

A. Graduation Credits : At least 33 credits total

B. Mandatory General Course : 3 credits and 1AU

- One course among CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials Science and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies, CC531 Patent Analysis and Invention Disclosure, CC532 Collaborative System Design and Engineering
- CC010 Special Lecture on Leadership(non-credit, this applies to students entering KAIST in 2002 and thereafter; general scholarship students, foreign students are excluded)
- CC020 Ethics and Safety I(1AU)

C. Mandatory Major Course : 6 credits.

- Advanced Molecular Cell Biology I, Advanced Molecular Cell Biology II
(Applied to freshman who entered KAIST in 2008 and afterward).

D. Elective Course : 9 credits.

E. Research Credits : At least 15 credits including 2 from Seminar (General scholarship students need to earn at least one credit from Seminar).

2) Coursework Master's Degree

A. Graduation Credits : At least 33 credits total

B. Mandatory General Course : 3 credits and 1AU

- One course among CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials Science and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies, CC531 Patent Analysis and Invention Disclosure, CC532 Collaborative System Design and Engineering
- CC010 Special Lecture on Leadership(non-credit, this applies to students entering KAIST in 2002 and thereafter; general scholarship students, foreign students are excluded)
- CC020 Ethics and Safety I(1AU)

C. Mandatory Major Course : 6 credits.

- Advanced Molecular Cell Biology I, Advanced Molecular Cell Biology II
(Applied to freshman who entered KAIST in 2008 and afterward).

D. Elective Course : 15 credits.

E. Research Credits : At least 9 credits including 7 from specified Research and 2 from Seminar (General scholarship students need to get at least 1 credit from Seminar and 8 credits from Specified Research).

- * Applies to-be Ph.D. candidates only.

□ Doctoral Program

Mandatory General	Mandatory Major	Elective	Research	Total
3 + 1AU	6	15	36	60

- A. Graduation Credits : At least 60 credits total.
- B. Mandatory General Course : 3 credits and 1AU
- One course among CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials Science and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies, CC531 Patent Analysis and Invention Disclosure, CC532 Collaborative System Design and Engineering
 - CC020 Ethics and Safety I(1AU)
- C. Mandatory Major Course : 6 credits.
- Advanced Molecular Cell Biology I, Advanced Molecular Cell Biology II (Applied to freshman who entered KAIST in 2008 and afterward).
- D. Elective Course : 15 credits.
- E. Research Credits : At least 36 credits.
- Seminar : At least 4 credits (General scholarship students need to get at least 1 credit)
 - Graduate student seminar : At least 2 credits (at least 1 presentation)
 - Thesis Research : At least 30 credits (General scholarship students need to get at least 33 credits)
- * In case of graduate students seminar, general scholarship students can replace their credits to thesis research and foreign students can replace their credits to lectures in Korean.
- ※ The course credits earned in the Master's course work can be used towards the Doctoral degree(except research credits).

□ Interim measures

1) Undergraduate course

- This completion requirement is applied to freshman who entered KAIST in 2010 fall semester.
- Graders must achieve either previous or revised completion requirement.
- Students who want to graduate with previous completion requirement but couldn't complete Evolution can be replace for one of subject in elective major courses.
- Admissible substitute course (Laboratory in Cell Biology & Genetics → Cell Biology Experiment)

2) Graduate course

- This completion requirement is applied to freshman who entered KAIST in 2011.
- Students who entered KAIST in 2010 must achieve either previous or revised completion requirement.