

Course Requirements

□ Undergraduate Requirement

| General Course | | | Basic Course | | | Major Course | | | Free Selective Course | Research | Total |
|----------------|-----------|----------|--------------|-----------|----------|--------------|-----------|----------|-----------------------|----------|-------|
| Required | Selective | Subtotal | Required | Selective | Subtotal | Required | Selective | Subtotal | | | |
| 6(9AU) | 21 | 27(9AU) | 26 | 6 | 32 | 9 | 40 | 49 | 19 | 3 | 130 |

- A. Required Credits for Graduation: at least 130 credits.
- B. General Course : 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 Course
 - 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 (①~⑩)

- Elective Basic Courses: at least 6 credits
 - ※ Students having a double major take 3 credits.
- D. Completion of Major Courses: at least 49 credits
 - Required Major Courses: 9 credits
 - Basic Mechanical Practice(3), Mechanical Engineering Laboratory(3), Capstone Design I(3)
 - Selective 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 Free Seletive 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

One of the following requirements should be satisfied before graduation:

 - PBT TOEFL (ITP) score : at least 560
 - CBT TOEFL score : at least 220
 - iBT TOEFL score: at least 83
 - TOEIC score : at least 760
 - TEPS score : at least 670
- H. 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

| Core Course | Major Course | | Research | Total |
|-------------|--------------|-----------|------------|-------|
| | Required | Selective | | |
| 3 and 1AU | - | 18 | 12 or less | 33 |

- Required Credits for Graduation: at least 33 credits.
- Common Courses: 3 credits and 1AU
 - 1 course among 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)
- Required Major Courses: NONE
- Selective Major Courses: at least 18 credits
- Research: at least 12 credits (Seminar 2credits)

2) Doctoral Program

| Core Course | Major Course | | Research | Total |
|-------------|--------------|-----------|------------|-------|
| | Required | Selective | | |
| 3 and 1AU | - | 33 | 30 or more | 66 |

- Required Credits for Graduation: at least 66 credits in total.
- Common Course: 3 credits and 1AU(Same as M.S.)
- Required Major Courses: NONE
- Selective Major Courses: at least 33 credits
- Research: at least 30 credits