

Course Requirements

□ Undergraduate Requirement

General Course			Basic Course			Major Course			Free Selective Course	Research	Total
Required	Selective	Subtotal	Required	Selective	Subtotal	Required	Selective	Subtotal			
7(8AU)	21	28(8AU)	23	9	32	9	40	49	18	3	130

- A. Required Credits for Graduation: at least 130 credits.
- B. Completion of Cultural Subjects: at least 28 credits & 8AU
- ▶ Required Cultural Courses: 7 Credits and 8AU
 - Students who entered the KAIST in or before 2006
 - "English I," "English II," and "Writing" : 7 credits
 - 4 AU of "Community Service"(64 hours), 4AU of "Physical Education"(64 hours) : 8 AU
 - Students who enter the KAIST in or after 2007
 - "English Communication I", "English Communication II", "English Reading & Writing", and "Writing" : 7 credits
 - 2 AU of "Community Service"(32 hours), 4AU of "Physical Education"(64 hours), 2AU of "Humanity/Leadership": 8 AU
 - ※ AU is not counted for GPA but required for graduation.
 - ▶ Selective Cultural Courses in Humanities & Social Science: at least 21 Credits
 - Take at least 1 course in each 5 divisions: Science and Technology, Literature and Art, History and Philosophy, Social Science, Foreign Language and Linguistics.
- C. Completion of Basic Courses: at least 32 credits
- ▶ Required Basic Courses: 23 credits. Take 1 course in each area:
 - ① 1 course among Basic Physics I (3), General Physics I (3), Advanced Physics I (3)
 - ② 1 course among Basic Physics II (3), General Physics II (3), Advanced Physics II (3)
 - ③ 1 course of General Physics Lab I (1)
 - ④ 1 course among Basic Biology (3), 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 I (3), General Chemistry I (3), Advanced Chemistry (3)
 - ⑧ 1 course among General Chemistry Lab I (1), Advanced Chemistry Lab (1)
 - ⑨ 1 course among Basic Programming (3), Advanced Programming (3)
 - ▶ Selective Basic Courses: at least 9 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)
- 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:
 - At least 9 credits in required major courses, and at least 48 credits in selective major courses.
 - Select at least 6 courses out of 8 Basic ME Elective 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)

□ Master’s and Doctoral Programs

1) Master’s Program

Core Course	Major Course		Research	Total
	Required	Selective		
3	-	21	12 or less	36

- ▶ Required Credits for Graduation: at least 36 credits.
- ▶ Common Courses: 3 credits
 - 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.
- ▶ Required Major Courses: NONE
- ▶ Selective Major Courses: at least 21 credits
- ▶ Research: at least 12 credits

2) Doctoral Program

Core Course	Major Course		Research	Total
	Required	Selective		
3	-	39	30 or more	72

- ▶ Required Credits for Graduation: at least 72 credits in total.
- ▶ Common Course: 3 credits (Same as M.S.)
- ▶ Required Major Courses: NONE
- ▶ Selective Major Courses: at least 39 credits
- ▶ Research: at least 30 credits