

## Course Requirements

### □ Undergraduate

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 Course: 7 credits and 8 AU (1 AU means 1 hour activity / work a week for a semester)
  - 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.
- Elective General Course in Humanities & Social Science: at least 21 credits (at least 7 courses).
  - At least 1 course in each of 5 divisions: Science Technology; Literature and Art; History and Philosophy; Social Science; Foreign Language and Linguistics

#### C. Basic Courses Requirements: at least 32 credits

- Mandatory Basic Courses: 23 credits (1 course from each of the following 9 categories)
  - ① 1 course among Basic Physics I (3), General Physics I (3), and Advanced Physics I (3)
  - ② 1 course among Basic 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 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. 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

#### 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
- iBT TOEFL score: at least 83
- 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**

General Courses	Elective Major Courses	Research (including seminar credits)	Total
3	21	12	36

A. Graduation Credits : at least 36 credits

B. 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, CC531 Patent Analysis and Invention Disclosure)
- 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 : at least 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).