$\square$ Undergraduate Program

| 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 | 18 | 24 | 42 | 24 | 4 | 130 |

A. Graduation Credits

At least 130 credits total
B. General Course Requirements: at least 28 credits

- Mandatory General Courses : 7 credits and 8 AU (1 AU means 1 hour activity/work a week for a semester)
- English I, English II, Writing Course : 7 credits
※ The student who enter with a high TOEFL score can use this to fulfil required courses English I or II.
- Community Service (4 AU: 64 hours) and Physical Education (4 AU: 64 hours) ※ AU is not counted for GPA but is mandatory for graduation.
- Elective Courses in Humanities \& Social Science : at least 21 credits (at least 7 courses)
- Take ( 15 credits) 1 course from each of 5 divisions : Science Technology; Literature and Art; History and philosophy; Social Science; Foreign Language and Linguistics
- Remaining courses can be chosen regardless of the division.
※ Requirement for Foreign Language and Linguistics: students should take at least 1 course of a second foreign language other than English.
C. Basic Course Requirements: at least 32 credits
- Mandatory Basic Courses: 23 credits ( 1 course from each of the following 9 categories)
(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 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 Differentials \& Integrals I (3) or Advanced Differentials \& Integrals I (3)
(6) 1 course of Differentials \& Integrals II (3), or Advanced Differentials \& Integrals 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: Including General Chemistry II (3) at least 9 credits
D. Major Course Requirements: at least 42 credits

O Mandatory Major Courses : at least 18 credits
Molecular Biology, Biochemistry I, Biochemistry II, Biochemistry Experiment, Cell Biology, Physical Chemistry for Life Science.
O Elective Major Courses : at least 24 credits
Genetics, Laboratory in Cell Biology \& Genetics, Developmental Biology, Evolution and Ecology or Introductory Biotechnology, Biotechnology Experiment, Microbial and Cell Biotechnomogy, Biotechnology I.
E. Research Course Requirements: at least 4 credits

- Thesis Research (Required): at least 3 credits
- Specified Research (Required): at least 1 credits
- Seminar (Elective): at least 2 credits
F. Elective Courses: Including Organic Chemistry I at least 24 credits (offered by the Dept. of Chemistry)
G. English Language Requirements for Graduation

O One of the following requirements should be satisfied for graduation before entering school or
while in school:

- PBT TOEFL(ITP) score : at least 560
- CBT TOEFL score : at least 220
- TOEIC score : at least 760
- TEPS score : at least 670
H. Minor and Double Major
o Double Major: Same as requirements mentioned above (completion of the Thesis Research course and other research courses for the second major is not mandatory for students who entered in or after 2001).
- Minor Major: The students should take 21 credits of the major courses including 12 credits of courses with $-0-$ or -1 - or with $-0-$ and -2 - in the tenth digit.
- Master's Programs

| Mandatory General Course | Major Course |  | Research | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Mandatory | Elective |  |  |
| 3 | - | 15 | 18 | 36 |

1) Thesis Master's Degree Program
A. Graduation Credits: At least 36 credits total
B. Mandatory General Course: 3 credits

- One course among 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
- Be sure to take the non-credit Leadership Class (CC010), mandatory for students who entered during or after the 2002 academic year.
C. Mandatory Major Course: None.
D. Elective Major Course: 15 credits.
E. Research: Within 18 credits including 2 from Seminar (Ordinary scholarship students need to earn at least one credit from Seminar).

2) Coursework Master's Degree Program
A. Graduation Credits: At least 36 credits total
B. Mandatory General Course: 3 credits

O One course among 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.
O Be sure to take the non-credit Leadership Class (CC010), mandatory for students who entered during or after the 2002 academic year.
C. Mandatory Major Course : None.
D. Elective Major Course : 21 credits.
E. Independent Study in M.S. : Within 12 credits including 2 from Seminar (Ordinary scholarship students need to get at least 1 credit from Seminar).

* Applies to to-be Ph.D. candidates only.
$\square$ Doctoral Programs

| Mandatory Course | Major Course |  | Research | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Mandatory | Elective |  |  |
| 3 | - | 24 | 45 | 72 |

A. Graduation Credits: At least 72 credits total.
B. Mandatory General Course: 3 credits.
C. Mandatory Major Course: -
D. Elective Major Course: 24 credits.
E. Research: Within 45 credits including 4 from Seminar (Ordinary scholarship students need to get at least 1 credit from Seminar).

* Credits taken during the master's program at KAIST are automatically transferred to the Ph.D. program.
* The seminar requirement is applied to all graduate students enrolled.

