

□ Structure

1. Basic policy of curriculum operation

The education at Korea Advanced Institute of Science and Technology (KAIST) is focused on cultivating problem solving capability and independent creative research ability in addition to the traditional education by lectures. The curriculum is organized and integrated to lead from bachelor's to master's to PhD course; mutually recognized subjects between each course are established and determined by the applicable department (major) and specified in the department (major) curriculum.

2. Curriculum Classification

A. Courses are divided into subject courses and research courses.

- Subject courses for the undergraduate program are divided into general, basic, and major courses. General courses include mandatory general courses(교양필수), elective general courses in humanities & social science(인문사회선택), and elective courses(자유선택). Basic courses include mandatory basic courses(기초과학필수) and elective basic courses(기초과학선택). Major courses include mandatory and elective major courses(전공필수, 전공선택). Research courses include B. S. thesis research(졸업연구), internship program & research(인턴십 프로그램 및 연구), individual study(개별연구), and seminar(세미나).
- The subject courses for master's and doctorate programs are divided into mandatory general(공통필수 "CC"), mandatory major(전공필수) and elective courses(선택). Research courses include thesis research(논문연구), internship program & research(인턴십 프로그램 및 연구), individual research(개별연구), and seminar(세미나).

B. The composition of the subject is determined based on the need of each department (major) by each department (major) and the credits are assigned based on the importance of the subject and the hours required for lecture and experimentation.

3. Course Code and Number

| Course No. | Course | | Course No. |
|------------|--|--|------------|
| 000 | Course without credit | CC | 000 |
| 100 | Bachelor's Courses | | 100 |
| 200 | | | 200 |
| 300 | | | 300 |
| 400 | | | 400 |
| 500 | Master's Courses | Course Restrictively Counted as Both Undergraduate & Graduate Course | 500 |
| 600 | | | 600 |
| 700 | | | 700 |
| 800 | Doctoral Courses | | 800 |
| 900 | Seminar, Paper, Independent Study, etc. (Satisfactory-Unsatisfactory Course) | | 900 |

a. Courses are marked with a course code, which is considered appropriate for describing the characteristics of the department/major, before the course number.

b. The following numbering system is applied to the courses:

- Non-accredited courses are coded as "CC" and given a three-digit number between 000 and 099.
- Undergraduate courses are given a three-digit number between 100 and 499.

- For general courses and basic courses, a three-digit number (i.e. 100-199, 200-299) is given depending on their difficulty levels.
 - For major courses, a three-digit number (i.e. 200-299, 300-399, 400-499) is given depending on their difficulty levels.
 - Graduate courses are given a three-digit number between 500 and 899.
 - Mandatory general courses are coded as "CC" and given a three-digit number between 500 and 599.
 - Mandatory major courses and elective courses are given a three-digit number depending on their difficulty levels: 500-699 for master's and professional master's courses; and 700-899 for doctor's courses.
 - Mutually recognized courses for undergraduate and graduate students are given a three-digit number between 400 and 599.
 - Graduation Research, Thesis Research, Individual Research, Seminar and other S-U courses are given a three-digit number between 400 and 499 or between 900 and 999.
 - Graduation Research is marked with 490 (undergraduate); Thesis Research with 960 (master's and professional master's) and 980 (doctor's); and Practicum and Research with 498 & 499 (undergraduate), 998 & 999 (master's and doctor's), respectively.
 - Individual Research is marked with 495 (undergraduate), 965 (master's) and 985 (doctor's); Seminar with 496 (undergraduate), 966 (master's) and 986 (doctor's); and Thesis Seminar with 967 (master's) and 987 (doctor's).
- c. Examples of course code and number
- The characteristics of the department/major are marked in English characters first and then a three-digit course number is given.
 - The first digit of the three-digit number indicates the difficulty level of a course; the remaining two digits constitute a random course number unique for the course.
(e.g.) PH221 - Classical Dynamics I
PH: Department/major characteristics; 2##: Difficulty level; #21: Random course number
 - Computer code
 - Marked with a five-digit number (i.e. ##.###), the computer code is used for computerized processing of courses and other purposes.

4. Credit classification and time indication

- A. The course units are either credits or AU (Activity Unit), and the credit is classified into the subject credit and the research credit.
- B. The subject credit can be classified into 1, 2, 3 and 4 credits depending on the importance and the number of class hours per week of the subject. 1 credit is given for a lecture of one hour per week for one semester or its equivalent number of hours. However, the experimental lab provides 1 credit for three hours per week for one semester of education or equivalent education hours.
- C. Seminar credit shall be one credit per semester in principle, and depending on the requirement of each department (major), up to 2 credits can be granted. The assigned hours per week in a seminar are determined by each department (major).
- D. Individual research credits can be granted up to 12 credits for each semester as decided by the advising professor of the student. However a total of 15 credits can not be exceeded.
- E. Thesis research credits can be granted up to 3 credits for each semester as decided by the advising professor of the applicable student. However a total of 12 credits can not be exceeded.
- F. AU is an activity for completing the physical education requirement, Humanity/Leadership, ethics & safety, happy college life and exciting college life course that is not included in the graduation credit. 1 AU is an activity for one hour per week for one semester or the activity with equivalent hours.
- G. Lecture: Lab: Credit (Assignment) → "Lecture" is a number of lecture hour per week, "Lab" is the

experiment/lab hours per week, "Credit" is the total number of credits, and "Assignment" is a number of hours on assignments per week.

5. Undergraduate Course Guide

- A. Students in the undergraduate program may select subjects in the 100-400 levels and mutually-recognized subjects in the 500 level.
- B. With the exception of make-up courses, the same course shall not be repeatedly taken for credit.
- C. In the event that a subject is not available for inevitable reasons, a substitute course should be taken.

6. Graduate Course Guide

- A. Students in the master's or the PhD course may take 500-900 levels of subjects and 400 level of mutually recognizing subjects for credit. (Major courses from the undergraduate program can be taken for credit under special circumstances. Refer to the course requirements for the graduate program.)
- B. With the exception of "F" grade for mandatory subjects, the same subject cannot be repeatedly taken for credit.
- C. In the event that a required subject is later not offered, a designated substitute course has to be completed.