Course Requirements

Course		Credits				Research	Total
		General course	Mandatory Major courses	Elective Major Course	mandatory/elective major (related departments)		
MS	Thesis	3 & 1AU	3	12	6	9	33
	Course-work	3 & 1AU	3	18	6	3	33
Ph.D		3 & 1AU	3	18	9	30	63

※ Credits taken in the master program except research and seminar credits can be accumulatively counted as the doctoral course credits.

□ **MS Program**

1) MS (Thesis)

   A. General Courses (3 credits and 1AU)
     - one of the following:
       CC500 (Scientific Writing), CC510 (Introduction to Computer Application), CC511 (Probability and Statistics), CC513 (Engineering Economy and Cost Analysis), and CC530, (CC511 is not considered for students in the Department of Mathematical Sciences, and CC510 is not considered for students in the Department of Computer Science).
     - CC010 Special Lecture on Leadership (non-credit, this applies to students entering KAIST in 2002 and thereafter ; general scholarship students, foreign students are excepted)
     - CC020 Ethics and Safety I (1AU) (all students must complete the course to graduate during the master's course or the doctor's course one time)

   B. Mandatory Major Courses (3 credits)

   C. Elective Major Courses (At least 12 credits)
     Every student must select at least 4 courses among the designated elective major courses, including at least 2 courses among the following courses:
     TE503 (Telecommunication Management), TE504 (Telecommunication Networks), TE628 (Internet Server), TE630 (Internet communication), and CS642 (Distributed Processing Systems).

   D. Mandatory / Elective Major Courses in the Related Departments (at least 6 credits).
     Every student must satisfy the mandatory / elective major courses of his / her own department. If there are elective major courses which the related departments designate, students must take those course. The remainder of the credits must be taken within the mandatory / elective major which the interdisciplinary program provides or mandatory / elective major in the related departments.

   E. Research (At least 9 credits)
     Every student must have at least 9 credits in thesis, individual research, seminar, and thesis seminar.

2) MS (Coursework)

   A. General Course (3 credits and 1AU)
     - one of the following:
       CC500 (Scientific Writing), CC510 (Introduction to Computer Application), CC511 (Probability and Statistics), CC513 (Engineering Economy and Cost Analysis), and CC530 (Entrepreneurship and

Business Strategies), (CC511 is not considered for students in the Department of Mathematical Sciences, and CC510 is not considered for students in the Department of Computer Science)
  – CC010 Special Lecture on Leadership (applied since 2002 except for industry supported scholarship & foreign students)
  – CC020 Ethics and Safety I (1AU) (all students must complete the course to graduate during the master's course or the doctor's course one time)
B. Mandatory Major Courses (3 credits)
C. Elective Major Courses (At least 18 credits)
  Every student may select 6 classes from the designated elective major courses including at least 3 courses among the following courses :
  TE503 (Telecommunication Management), TE504 (Telecommunication Networks),
  TE628 (Internet Server), TE630 (Internet communication), and CS642 (Distributed Processing Systems)
D. Mandatory / Elective Major Courses in the Related Departments (at least 6 credits)
  Every student must satisfy the mandatory/elective major courses of his / her own department. If there are elective major courses which the related departments designate, students must take those course. The remainder of the credits must be taken within the mandatory / elective major which interdisciplinary program provide or mandatory / elective major in the related departments.

E. Research(At least 3 credits)
  Every student must have at least 3 credits in individual research (TE965).
  Seminar may be substituted by the research class of his / her own department.

❑ Ph.D Program
A. Credits taken in the master program except research and seminar credits can be accumulated as the Ph.D course credits.
B. General Course (3 credits and 1AU)
  It is the same as for the MS course. If the student has already taken this course during his MS program, then it does not have to be taken again.
C. Mandatory Major Courses (3 credits)
D. Elective Major Course (At least 18 credits)
  In addition to the courses taken in the MS program, every student must take at least 6 courses which the interdisciplinary program provides, including the following courses:
  TE503 (Telecommunication Management), TE504 (Telecommunication Networks) (recommended to take during MS course), and at least 1 course from the following courses:
  TE628 (Internet server), TE630 (Internet communication), and CS642 (Distributed Processing Systems).
E. Mandatory / Elective Major Courses in the Related Departments (at least 9 credits)
  Including the courses taken in the MS program, every student must satisfy the mandatory / elective major courses of his/her own department. If there are elective major courses which the related departments designate, students must take those course. The remainder of the credits must be taken within the mandatory / elective major that the interdisciplinary program provides or mandatory / elective major in the related departments.
F. Research (at least 30 credits)
  Students must have at least 30 credits in dissertation, individual research, seminar, etc.
  (Research courses may be substituted by ones in their department)

[Notice (Common to Master & Ph.D. Programs)]

- If students take the courses that are approved to complete the interdisciplinary program from the related departments, those courses are not doubly counted as mandatory / elective major courses in the related departments.
- Elective major courses consist of networking area, mobile internet area, internet platform area for applications and services, and common courses. It is recommended to take courses in these areas.

☐ **Interim Measures**
- This requirement is applies to all undergraduate from 1th. Feb. 2009.
- The integrated M.S. and Ph.D. degree program students should follow the Ph.D. course requirements after they officially become Ph.D. students.
- Students who need to graduate only with this interdisciplinary program (not with the related department) may take mandatory / elective major courses or mandatory / elective major courses (in related departments) instead of mandatory major courses (in related departments).
- For the students who apply for "Telecommunication Engineering Interdisciplinary Program" since year 2010 can take any TE course not only TE523 to comply with mandatory course requirement.