Course Requirements

❑ **Undergraduate Requirement**

General Course			Basic Course			Major Course			Double Major	Research	Total
Mandatory	*Elective	Subtotal	Mandatory	Elective	Subtotal	Mandatory	Elective	Subtotal			
7 (9AU)	12	19 (9AU)	23	**3	26	9	33	42	40	4	130

* Student having a double major 12 credits without considering categories.
** Student having a double major take 3 credits.

❑ **Undergraduate Courses**

A. Graduation Credits : at least 130 credits in total
  - A cumulative grade point average of 2.0 or higher out of a possible 4.3 in all coursework
  - Undergraduate students in the department of business and technology management must double major in one
    of the other science and engineering programs (college of natural sciences, college of life science and bio
    engineering, college of engineering, college of information science and technology)

B. General Course : **At least 19 credits and 9AU** (applicable to students entering KAIST in 2014 and thereafter;
    for those who have entered KAIST in 2013 and before, refer to the Course Completion Requirements by
    Year of Admission)

◦ Mandatory General Course
    - Students entering KAIST in 2014 and thereafter: 7 credits and 9AU
      English Presentation & Discussion(1), Advanced English Listening(1), Advanced English Reading(1)
      Advanced English Writing(1), Writing(3), Physical Education(4AU), Humanity/Leadership(2AU), Ethics
      and Safety II(1AU), Happy College Life(1AU), Exciting College Life(1AU)
    - Students entering KAIST in 2011 and 2013: 6 credits and 9AU
      English Communication(1), Critical Thinking in English(2), Writing(3), Physical Education(4AU),
      Humanity/Leadership(2AU), Ethics and Safety II(1AU), Happy College Life(1AU), Exciting College
      Life(1AU)
      * English Communication → Intermediate English Speaking & Listening(2)
        Critical Thinking in English →Intermediate English Reading & Writing(2)
    - Students entering KAIST between 2009 and 2010: 6 credits and 9AU
      English Communication(1), Critical Thinking in English(2), Writing(3), Physical Education(4AU),
      Community Service(2AU), Humanity/Leadership(2AU), Ethics and Safety II(1AU)
    - Students entering KAIST between 2007 and 2008: 7 credits and 9AU
      English Communication I(1), English Communication II(1), English Reading&Writing(2), Writing(3),
      Physical Education(4AU), Community Service(2AU), Humanity/Leadership(2AU), Ethics and Safety
      II(1AU)
      * English Communication I → English Communication
        English Communication II → English Conversation
        English Reading&Writing → Critical Thinking in English
    - Students entering KAIST between 1998 and 2006: 7 credits and 9AU
      English I(2), English II(2) Writing(4AU), Community Service(2AU), Humanity/Leadership(2AU), Ethics
      and Safety II(1AU)
      * English I → English Communication
        English II → Critical Thinking in English

∘ Elective General Course in Humanities & Social Science : at least 12 credits
  - Students having a double major take 12 credits without considering categories.
    (Students entering KAIST between 2007 and 2010 should take 6 credits through lectures in English.)

C. Completion of Basic Courses: at least 26 credits (applicable to students entering KAIST in 2012 and thereafter; for those who have entered KAIST in and before 2011, refer to the Course Completion Requirements by Year of Admission)
  ∘ Mandatory Basic Courses: 23 credits
    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 Advance 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 (1)
    ⑨ 1 course of Basic Programming (3) or Advanced Programming (3)
    - Students having entered KAIST in 2007 or before : 23 credits (①~⑨)
    - Students having entered KAIST between 2008 and 2011: 26 credits((①~⑨), Freshman Design Course:
                                                      Introduction to Design and Communication)(3))

  ∘ Elective Basic Courses: at least 3 credits (Each department has different specific requirements. Please   refer to
      the departmental requirements for course completion.)
        - Students admitted in and before 2011 should take more than 6 credits
    ※ **Students having a double major take at least 3 or 6 credits.**

  D. Major Course : At least 42 credits are required
      - Mandatory Major Course : 9 credits (MSB200, MSB204, MSB351) are required
      - Elective Major Courses : At least 33 credits are required (Refer to the Undergraduate course List)
        - Elective Major Ⅰ : At least 15 credits
        - Elective Major Ⅱ : At least 12 credits
          ※ The credits from other departments are accepted as Elective Course :
            IE200(OR), IE425(Project Management)
        - Elective Major Ⅲ : At least 6 credits
          [Up to 6 credits are counted in MSB481 if the subtitles are different.]

  E. Elective Course : Double major credits [The BTM students should take the double major courses in other departments of Natural science and Engineering]

  F. Research Course : up-to 4 credits.
      - Graduate research : 4 credits (required)
        Select one courses from the following courses : Practicum Project (3) or Internship (3) or
                                                    B.S. Thesis Research (3)
                                          S&T Biz Colloquium(1) (required)
  G. English Proficiency Requirements for Graduation
      ∘ Before entering or during studying at KAIST, students should obtain the minimum required score or
        higher from one of the following: TOEFL, TOEIC, TEPS and IELTS.
      ∘ Students who have hearing impairment level 3 or above should obtain the minimum required score or
        higher, excluding listening.

1) Students who have submitted past scores for TOEIC (before April 2006) or TEPS (before February 28, 2007)

- Students admitted in 2008 or later

Classification	iBT TOEFL	PBT TOEFL	CBT TOEFL	TOEIC	TEPS	IELTS
General qualification score	83	560	220	775	690	6.5
Qualification score for hearing impairment level 3 or above	62	372	146	387	414	4.8

- Students admitted in 2007 or earlier

Classification	iBT TOEFL	PBT TOEFL	CBT TOEFL	TOEIC	TEPS	IELTS
General qualification score	83	560	220	760	670	6.5
Qualification score for hearing impairment level 3 or above	62	372	146	380	402	4.8

2) Students who have submitted NEW TOEIC score taken after May 2006 or TEPS score taken after March 1, 2007

H. Graduation Requirements for Foreign Students: TOPIK (Test of Proficiency in Korean)

Classification	iBT TOEFL	PBT TOEFL	CBT TOEFL	TOEIC	TEPS	IELTS
General qualification score	83	560	220	720	599	6.5
Qualification score for hearing impairment level 3 or above	62	372	146	360	359	4.8

∘ Undergraduate foreign students are required to obtain level 2 or higher score in TOPIK before entering or during studying at KAIST.

※ Applies to students entering KAIST in 2013 and thereafter

I. Requirements for Double Major : At least 40 credits are required
  - Mandatory Major Course : 6 credits
    Take 6 credits of 9credits (MSB200 , MSB204, MSB351)
  - Elective Major Courses : At least 34 credits are required (Refer to the Undergraduate course List)
    - Elective Major Ⅰ : At least 15 credits
    - Elective Major Ⅱ : At least 10 credits
      ※ The credits from other departments are accepted as Elective Course : IE200(OR), IE425(Project Management)
      ※ Either IE200(Introduction to Operations Research) or MSB341(Management Science) counts as a course for graduation. The students should take only one of them.
      ※ **Up to 6 credits are counted in MSB481 if the subtitles are different.**
    - Elective Major Ⅲ : At least 6 credits
J. Requirements for Minor Major : At least 18 credits are required
  - Mandatory Major Course : 6 credits
    Take 6 credits of 9credits (MSB200 , MSB204, MSB351)
  - Elective Major Courses : At least 12 credits are required (Refer to the Undergraduate course List)
    - Elective Major Ⅰ : At least 6 credits
    - Elective Major Ⅱ : At least 6 credits
      ※ The credits from other departments are accepted as Elective Course : IE200(OR), IE425(Project Management)
      ※ Either IE200(Introduction to Operations Research) or MSB341(Management Science) counts as

a course for graduation. The students should take only one of them.
  ※ **Up to 6 credits are counted in MSB481 if the subtitles are different.**
 - Elective Major Ⅲ : Optional

Course Requirements for Minor and Double Major

Student Entering year	Double Major (At least 40 credits)	Minor Major (At least 18 credits)
2014 and thereafter	- Mandatory Major : take 6 credits of 9credits - Elective Major Ⅰ : At least 15 credits - Elective Major Ⅱ : At least 10 credits - Elective Major Ⅲ : At least 6 credits	- Mandatory Major : take 6 credits of 9 credits - Elective Major Ⅰ : At least 6 credits - Elective Major Ⅱ : At least 6 credits - Elective Major Ⅲ : Optional
2013	- Mandatory Major : 6 credits - Elective Major Ⅰ : At least 18 credits - Elective Major Ⅱ : At least 10 credits - Elective Major Ⅲ : At least 6 credits	- Mandatory Major : 6 credits - Elective Major Ⅰ : At least 6 credits - Elective Major Ⅱ : At least 6 credits - Elective Major Ⅲ : Optional
From 2012 to 2010	- Mandatory Major : 6 credits - Elective Major Ⅰ : At least 18 credits - Elective Major Ⅱ : At least 16 credits	- Mandatory Major : 6 credits - Elective Major Ⅰ : At least 6 credits - Elective Major Ⅱ : At least 6 credits
From 2009 to 2008	- Mandatory Major : 21 credits - Elective Major : At least 19 credits	- Mandatory Major : At least 9 credits including Introduction to Business Management (MSB200) - Elective Major : At least 9 credits or more including Principles of Economics (BEP405) or Introduction to Economics (HSS159)

～2007		- Mandatory Major : 6 credits Must take MSB200 and including Principles of Economics (BEP405) or Introduction to Economics (HSS159)
		- Elective Major : At least 12 credits
		  * Elective Major Ⅰ : At least 6 credits
		  * Elective Major Ⅱ : At least 3 credits

❏ **Master's Programs**

Student Entering year	Mandatory General	Mandatory Major	Elective	Research	Total
2014	3 + 1AU	6	15	9	33
2010~2013	3 + 1AU	3	18	9	33

A. Graduation Credits: at least 33 credits
B. Mandatory General Course : 3 credits and 1AU
  - Select one course from the following (CC500 Science Writing English, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials Science and Engineering, CC513 Engineering Economics and coast Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure)
  - CC010 Special Lecture on Leadership(non-credit, this applies to students entering KAIST in 2002 and

thereafter; general scholarship students, foreign students are excluded)
   - CC020 Ethics and Safety I(1AU)
C. Mandatory Major Course : 6 credits : MSB500(Advanced Statistics for Management),
                                          MSB510(Innovation Management and Strategy)
D. Elective Course : at least 15 credits
                         (Select at least 12 credits from MSB 500 level or above courses)
E. Research Course Requirements: at least 9 credits

❑ Doctoral Program

Student Entering year	Mandatory General	Mandatory Major	Elective	Research	Total
2014	3 + 1AU	6	27	30	66
2010~2013	3 + 1AU	3	30	30	66

A. Graduation Credits: at least 66 credits
B. Mandatory General Course : 3 credits and 1AU
   - Select one course from the following (CC500 Science Writing English, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials Science and Engineering, CC513 Engineering Economics and coast Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure)
   - CC020 Ethics and Safety I(1AU)

C. Mandatory Major Course : 6 credits MSB500 (Advanced Statistics for Management)
                                       MSB510(Innovation Management and Strategy)
D. Elective Course : at least 27 credits
                         (Select at least 21 credits from MSB 500 level or above courses)
      * Select one courses from the following courses : MSB601(Research Methodologies Ⅰ),
        MSB701(Advanced Econometrics), MSB702(Research Methodologies Ⅱ)

E. Research Course Requirements: at least 30 credits

※ Credits(for general courses and major courses) earned in the master's program can be included in the doctoral program.

※ Course Requirements for MS and Ph.D Degree

Student Entering year	Master's Programs (at least 33credits)	Doctoral Program (at least 66credits)

2014 and thereafter	○ Mandatory General : 3credit, 1AU
	○ Mandatory Major : 6credits
	○ Elective : at least 15credits
	  - At least 12credits among MSB500 level or above.
	
	○ Research Course Requirements: at least 9credits
		○ Mandatory General : 3credit, 1AU
		○ Mandatory Major : 6credits
		○ Elective : at least 27credits
		  - At least 21credits among MSB500 level or above.
		  - Select one courses from the following courses :
		    MSB601(Research Methodologies I),
		    MSB701(Advanced Econometrics), MSB702(Research Methodologies II)
		○ Research Course Requirements: at least 30 credits

2010 ~2013	○ Mandatory General : 3credit, 1AU
	○ Mandatory Major : 3credits
	○ Elective : at least 18credits
	  - At least 12credits among MSB500 level or above.
	
	○ Research Course Requirements: at least 9 credits
		○ Mandatory General : 3credit, 1AU
		○ Mandatory Major : 3credits
		○ Elective : at least 30credits
		  - Select one courses from the following courses :
		    MSB601(Research Methodologies I),
		    MSB701(Advanced Econometrics), MSB702(Research Methodologies II)
		○ Research Course Requirements: at least 30 credits

4. Interim Accommodations

A. Undergraduate

1) Degree Requirements

The new requirements for the Business and Technology Management first major, established in October 2013, apply to students who were enrolled in BTM in spring 2014 and thereafter. In addition, KAIST students who first matriculated prior to 2009 are ineligible to have BTM as their first major

The course requirements listed here for the Business and Technology Management second major and minor apply to students who matriculated at KAIST on or after Spring 2014.

Students who entered KAIST in 2013 and before have the option of following either the new requirements or the past requirements

- Students who are pursuing either a double major or minor in Business and Technology Management and a minor in Economics, must comply either with the course requirements listed here or the ones that were in effect in 2013

For students who first enrolled at KAIST between 2010 and 2013 and who have taken Introduction to Economics (HSS159), the course can be applied to the major and minor course requirements for both Humanities & Social Science and Business and Technology Management

This requirements can be applied to the students who entered KAIST in 2009 and before.

3) Either IE200 Introduction to Operations Research or MSB341 Operations Research can be counted towards the BTM major or minor, but not both.

4) Up to 6 credits in MSB481 can   be counted towards the BTM major or minor requirements, but only if the course descriptions are different.

5) Substitutes for abolished courses
- BEP405 Principles of Economics or
  BEP471Introduction to Market Economy
  can be substituted with either
  HSS159 Introduction to Economics,
  MSB215Microeconomics,
  MSB316Macroeconomics
- MSB442 Laws on Culture Contents and Intellectual Properties can be substituted with
CTP302 Understanding of Cultural Contents
- The substitutions above only apply to those who need to re-take BEP405 Principles of Economics, BEP471
  Introduction to Market Economy, or MSB442 Laws on Culture Contents and Intellectual Properties

   6) Degree Requirements for Majors or Minors with Overlapping Courses in other departments/programs.:

A maximum of one course (3 credits) can be counted both towards the requirements for the minor in Business and Technology Management and for the minor in economics

A maximum of two courses (6 credits) in Elective III can be counted both towards the requirements for the double major in Business and Technology Management and for the minor in Economics

In the case of multiple majors or minors, a maximum of 9 credits can be counted both towards the major or minor in Business and Technology Management and the other majors or minors.

- Graduate

- Graduate Students in Business and Technology Management must successfully complete the three core courses: Principles of Accounting, Financial Management, and Marketing.
  - Students who have already completed one of these courses as a part of their undergraduate degree or another graduate degree can apply to the Head of the Department to either get an exemption from the requirement or to substitute a different course in its place.
  - Note that students who have completed any of these three required courses during their undergraduate degree program will not be granted graduate credit for that work.

Substitutes for abolished and changed courses

HSS159 Introduction to Economics	HS144 Introduction to Economics BAT115 Fundamentals of Economics
MSB200 Introduction to Business Management	BEP200,BEP400 Introduction to Business Management HSS158,HS176 Introduction to Business Management MG210,MGT210 Principle of Management BAT(ITB)113 Principles of Business Adminstration I
MSB201 Statistical Analysis for Business	BAT(ITB)201 Statistical Analysis,
MSB215 Microeconomics	MG250,MGT250 Theory of Microeconomics BEP406 Microeconomics, MSB406 Microeconomics, ECN201
MSB230 Principle of Accounting	MBS420,BEP420,MG342,MGT342,BAT(ITB)130 Principle of Accounting, MTP420 Accounting for Engineers & Scientists
MSB235 Financial Management	BEP410 Financing MG341,MGT341,BAT(ITB)235 Financial Management MTP410 Finance for Engineers & Scientists
MSB236 Marketing	BEP430, BAT(ITB)236 Marketing MG346, MGT346 Principles of marketing MTP430 Marketing for Engineers & Scientists
MSB237 Introduction to MIS	BEP460 Management Information System IE461 Data & Information Systems MGT320 Introduction to Information Systems BAT(ITB)237 Introduction to MIS
MSB238 Organizational Behavior	BEP444 Organizational Behavior and Leadership BAT(ITB)238 Organizational Behavior
MSB301 Econometrics	BAT314 Econometrics, ECN301 Econometrics
MSB316 Macroeconomics	MSB202,BEP202 Macroeconomics, BAT(ITB)316 Macroeconomics, ECN316 Macroeconomics
MSB337 Information Technology Management	BAT(ITB)345 Advanced in MIS
MSB341 Management Science	BAT(ITB)342 Operations Research
MSB343 Business Strategy	BEP343 Business Strategy, BAT(ITB)338 Strategic Management
MSB354 Operations Management	BAT(ITB)354 Operations Management
MSB356 Information Society	BAT(ITB)356 Information Society
MSB401 Management of Technology Innovation	BEP401 Management of Technology Innovation
MSB402 International Economics	BEP402,BAT(ITB)457,ECN402 International Economics
MSB411 Investments	BEP411 Investments, MG432,MGT432 Investment BAT(ITB)331 Investment Theory
MSB413 Industrial Organization	BAT(ITB)313 Industrial Organization
MSB415 Game Theory	BEP203 Game Theory and its Application, BAT(ITB)415, ECN415 Game Theory
MSB416 Future High-tech Product Development	BAT315 Development Strategy for E-Business
MSB421 High-tech Human Resources Management)	BAT420 Human Resource Management

MSB422 Entrepreneurial Mindset	BEP422 Entrepreneurial Mindset
MSB431 Managerial Accounting	BAT430 Managerial Accounting
MSB436 Marketing Research	BEP342 Marketing Research, BAT433 Market Research
MSB440 Legal Aspects and Cases of Entrepreneurship	MTP440, BEP440 Legal Aspects and Cases of Entrepreneurship
MSB442 Laws on Culture Contents and Intellectual Properties	MTP440,BEP440 Laws on Culture Contents and Intellectual Properties
MSB445 International Business	BEP445 International Business BAT(ITB)321 International Business Management
MSB446 Supply Chain Management	BAT(ITB)444 Supply Chain Management
MSB454 Information Policy	BAT(ITB)455 Information Policy
MSB450 Entrepreneurship & Venture Business	EE450 Technology Entrepreneurship
MSB451 Venture Formation Practice	EE451 IT Venture Start-up
MSB458 Web Technologies and Business Strategies	CS459 Web Technologies and Business Strategies