# Major Course Requirements for
# Business and Technology Management (IT Business)
## (For undergraduate students admitted in 2015 or before)

▣ **Credit Requirements for Graduation:**
- ○ **Students admitted in 2002-2005: at least 144 credits**
- ○ **Students admitted in 2006-2009: at least 134 credits**
  - ※ A cumulative grade point average of 2.0 or higher out of a possible 4.3 in all coursework.

▣ **General Courses**
- ○ Students admitted in 2002-2008: at least 24 credits
  (including English mandatory courses)
  - ※ Requirement regarding English mandatory courses can be satisfied by completing a minimum credits of English course requirement according to the graduation requirement based on the student number, regardless of the number of English substitute course at KAIST completed. If students take extra credits in English mandatory courses, the extra credits are recognized as elective basic courses. However, double recognition of the same English course is not possible. (2002-2003: 10 credits, 2004-2008: 8 credits)
  - ※ If the substitute courses of uncompleted English mandatory courses of the (old) ICU are not open until the last semester before graduation, the student can replace the English courses with other similar courses open in that semester with the approval of the Undergraduate Head Professor.
  - ※ Among the physical education courses, 2AU can be replaced by Sports sports club activities.
- ○ Students admitted in 2009: at least 24 credits & 4AU
  - - Mandatory General Courses: 6 credits, 4AU
    English Communication(1), Critical Thinking in English(2), Writing(3), Community Service(2AU), Humanity/Leadership(2AU),
    - ※ International students can be exempted from writing or writing related course among General Mandatory courses by completing a Korean course (3 credits).
  - - Elective General Courses : at least 18 credits
    (Completing at least one course from Physical Education is recommended.)

○ Course Requirements by Student numbers

| Student No. | Requirements |
|---|---|
| 2009 | ○ Mandatory Basic Course: 6 credits, 4AU<br> - English Communication(1), Critical Thinking in English(2), Writing(3)<br> - Community Service 2AU, Humanity/Leadership 2AU<br>○ Elective Basic Course: 18 credits (completion of at least one subject of physical education(1) is recommended) |
| 2004 ~ 2008 | ○ Mandatory English Course: 8 credits<br> - Listening and Pronunciation IV(1), Conversation IV(1), Reading IV(1), WritingIV(1), Listening & PronunciationⅤ(1), Conversation and PresentationⅤ(1), ReadingⅤ(1), WritingⅤ(1)<br>○ Mandatory Basic Course: 2 credits<br> - The Art of Technical Writing(1)<br> - Colloquium(1)<br> ※ International students can substitute for the course when the grade of Korean Language Ⅱ is 3.0/4.3 or above.<br> - University Hour(0)<br> ※ International students can substitute Korean Culture and History for University Hour.<br>○ Elective Basic Course: 14 credits (Completing at least one course from Physical Education is recommended.) |

※ A maximum of 2 courses from Physical Education whose completion is marked as AU, 1 course can be recognized as 1 credit.

※ Criteria for physical activity club Recognition (2AU)
  - 2AU can be recognized if students apply for the recognition.

※ International students can be exempted from writing or writing related course among General Mandatory courses by receiving Korean course credits that are required for graduation according to the admission year.

※ Those students who haven't completed University Hour must meet the requirements by attending Leadership Seminar as many times as required University hour.


○ Completion of Substitute Courses
  - Substitute courses for abolished or changed courses
   ① COM0110 Philosophy of Science → COM0164 Science and Technology, COM0133 Western Philosophy
   ② The Art of Technical Writing in Korean → 1 course from The Art of Technical Writing, Philosophy of Science, Oriental Philosophy, Korean History, Modern World History, Introduction to Sociology, Introduction to Psychology and Introduction to Communications(2005) → Writing(2009)
    ※ International students can be exempted from writing or writing related

course among General Mandatory courses by receiving Korean course credits that are required for graduation according to the admission year.

③ COM0173 Colloquium → BEP491 CEO Seminar(Management Science, 2009) → Special Lecture on Leadership(Leadership Center, 2010)

④ Art Ⅰ(Understanding Music) → Understanding Music

⑤ Art Ⅱ(Understanding Arts) → Understanding Arts

⑥ Physical Education Ⅰ → Physical Education Ⅰ(Golf)

⑦ Physical Education Ⅱ → Physical Education Ⅱ(Swimming)

⑧ Physical Education Ⅳ → Physical Education Ⅲ(Skiing)

⑨ Practical Sino-Korean(COM0109) → Practical Sino-Korean(COM0140)

⑩ Practical Sino-Korean(COM0140) → Classics of The East and West(COM0163)

⑪ Logic → Philosophy of Science, Oriental Philosophy, Western Philosophy, Modern World History, Introduction to Sociology, Introduction to Psychology, Introduction to Communications

⑫ IT Leadership→Philosophy of Science, Oriental Philosophy, Korean History, Modern World History, Introduction to Sociology, Introduction to Psychology, Introduction to Communications

⑬ Understanding Philosophy → more than 1 credit from Philosophy of Science, Oriental Philosophy, Western Philosophy and other liberal courses

⑭ International students can substitute for the Colloquium when the grade of Korean Language Ⅱ is 3.0/4.3 or above.

⑮ Students will be exempted from taking the required English courses according to the authorized English Test (TEPS/TOEFL/IELTS) score and a grade of "S" will be given.(authorized by School of Humanities & Social Sciences, (old) ICU rule is applied)

| Classification | Exemption List of English Course | | English Score | Remarks |
|---|---|---|---|---|
| | Course Title (Course No.) | Credit | | |
| Advanced | Reading (COM1503) | 1 | TOEFL iBT Reading 25 TOEIC RC 450 | |
| | Writing (COM1504) | 1 | TOEFL (PBT/CBT) 6.0 LOEP 6/6 or 8/8 TOEFL iBT Writing 25 | |
| | Listening (COM1501) | 1 | TOEFL iBT Listening 25 TOEIC LC 450 | |
| | Conversation/Presentation (COM1502) | 1 | Phone Pass-Overall 70 TOEFL iBT Speaking 25 | |
| High Intermediate | Reading (COM1403) | 1 | TOEFL iBT Reading 22 TOEIC RC 400 | |
| | Writing (COM1404) | 1 | TOEFL (PBT/CBT) 5.0 LOEP 5/6 or 7/8 TOEFL iBT Writing 22 | |
| | Listening (COM1401) | 1 | TOEFL iBT Listening 22 TOEIC LC 400 | |
| | Conversation (COM1402) | 1 | Phone Pass-Overall 60/ TOEFL iBT Speaking 22 | |

○ Substitute Courses of Mandatory English Courses
- Students admitted in 2008 or before

| Requirements | Course Title of (old)ICU (Credits) | Course Title of KAIST (Credits) | |
|---|---|---|---|
| | | Before Fall Semester 2013 | After Spring Semester 2014 |
| Mandatory English Course (8 credits) | COM1401 Listening & Pronunciation IV (1) | HSS393 English Presentation(3) | HSS010 Intermediate English Speaking & Listening(2) HSS395 Current Event in English (3) (From Fall semester 2014) |
| | | HSS390 Advanced English Conversation(3) | |
| | | HSS479 English Debate(3) | |
| | | HS364 Internet English (3) | |
| | | COM401 Listening IV(1) | |
| | COM1402 Conversation IV (1) | HSS398 English Conversation (2) | HSS010 Intermediate English Speaking & Listening(2) |
| | | HS372 English Conversation (2) | |
| | | COM402 Conversation IV(1) | |
| | COM1403 Reading IV (1) | HSS021 Critical Thinking in English (2) | HSS011 Intermediate English Reading & Writing (2) |
| | | HS201 Critical Thinking in English (2) | |
| | | COM403 Reading IV(1) | |
| | COM1404 Writing IV (1) | HSS391 Advanced English Writing (3) | HSS011 Intermediate English Reading & Writing (2) HSS392 English Science Writing (3) (From Fall semester 2014) |
| | | HS361 Advanced English Writing (3) | |
| | | COM404 Writing IV(1) | |

| Requirements | Course Title of (old)ICU (Credits) | Course Title of KAIST (Credits) | |
|---|---|---|---|
| | | Before Fall Semester 2013 | After Spring Semester 2014 |
| | COM1501 Listening & Pronunciation V (1) | HSS393 English Presentation (3) | HSS023 Advanced English Listening(1) |
| | | HS363 English Presentation (3) | |
| | | COM405 Listening V(1) | |
| | COM1502 Conversation & Presentation V (1) | HSS020 English Communication(1) | HSS022 English Presentation & Discussion(1) |
| | | HS106 English Communication (1) | |
| | | COM406 Conversation & Presentation V(1) | |
| | COM1503 Reading V (1) | HSS397 Advanced English Reading (3) | HSS025 Advanced English Reading(1) |
| | | HS371 Advanced English Reading (3) | |
| | | COM407 Reading V(1) | |
| | COM1504 Writing V (1) | HSS392 English Science Writing | HSS024 Advanced English Writing(1) |
| | | HSS399 Creative English Writing(3) | |
| | | HS362 English Science Writing (3) | |
| | | COM408 Writing V(1) | |

※ HSS394 Internet English taken in Fall semester 2011 or before is recognized as the completion of COM1401 Listening and Pronunciation IV.

- Students admitted in 2009

| Requirements | Before (course No. & Course Title) | After (course No. & Course Title) |
|---|---|---|
| Mandatory English Course (3 credits) | HSS020 English Communication(1) | HSS010 Intermediate English Speaking & Listening(2) |
| | HSS021 Critical Thinking in English(2) | HSS011 Intermediate English Reading & Writing(2) |

▣ **Common Courses**
   ○ Students admitted in 2002-2003: at least 24 credits
   ○ Students admitted in 2004-2005: at least 27 credits
   ○ Students admitted in 2006-2009: at least 27 credits

○ Course Requirements by Student numbers

※ The course numbers above were given by (old) ICU course requirements. Refer to the changed substitute course numbers as described below.

| Student No. | Requirements |
|---|---|
| 2006-2009 | ○ Mandatory Common: 24 credits<br>ITB0100 Calculus, ITB0101 Mathematics for Business and Economics, ITB0103 Probability and Statistics, ITB0113 Principles of Administration I, ITB0115 Fundamentals of Economics, ITB0130 Principle of Accounting, ITB0237 Introduction to MIS, ITB0238 Organizational Behavior |
| 2005 | ○ Mandatory Common: 27 credits<br>ITB0100 Calculus, ITB0101 Mathematics for Business and Economics, ITB0103 Probability and Statistics, ITB0113 Principles of Administration I, ITB0115 Fundamentals of Economics, ITB0121 Programming Fundamentals I-JAVA, ITB0130 Principle of Accounting, ITB0237 Introduction to MIS, ITB0238 Organizational Behavior |
| 2004 | ○ Mandatory Common: 27 credits<br>ITB0100 Calculus, ITB0101 Mathematics for Business and Economics, ITB0103 Probability and Statistics, ITB0112 Principles of Microeconomics, ITB0113 Principles of Administration I, ITB0114 Principles of Business Administration II, ITB0121 Programming Fundamentals I-JAVA, ITB0130 Principle of Accounting, ITB0212 Economics of Money, Banking, and Financial Market |
| 2003 | ○ Mandatory Common: 24 credits<br>ITB0100 Calculus, ITB0101 Mathematics for Business and Economics, ITB0103 Probability and Statistics, ITB0110 Principles of Business Administration, ITB0112 Principles of Microeconomics, ITB0122 Programming Fundamentals (I)-C,C++, ITB0130 Principle of Accounting, ITB0212 Economics of Money, Banking, and Financial Market |
| 2002 | ○ Mandatory Common: 12 credits<br> - ITB0103 Probability and Statistics, ITB0105 Programing Language(C,C++), ITB0106 Java Programmimg Language, BA101 Calculus<br>○ Mandatory Elective : 12 credits<br> - BA201 Mathematics for Business and Economics, ITB0202 Intermediate Microeconomics, ITB0203 Financial Accounting, ITB0204 Internet Business Management, ITB0307 Macroeconomics |

○ Substitute Courses
① ITB0105 Programming Fundamentals(C,C++) → ITB0122 Programming Fundamentals Ⅰ('03) → ICE0125 Programming Fundamentals('04)
② ITB0106 Programming Fundamentals(JAVA) → ITB0121 Programming FundamentalsⅡ('04) → ICE0124 Programming Fundamentals Ⅰ('06) → CS101 Programming Fundamentals(Dept. of CS, '09) → Computer Programming 2(Basic of Programing(JAVA) (in case of retaking courses in Chungnam National University)
③ ICE0120 Introduction to Computer Science → CS202 Problem Solving (Dept.

of Computer Science '09) → CS220 Programming Principles (Dept. of Computer Science '10) → Introduction to Computer (in case of retaking Introduction to Computer Science in Chungnam National University)

④ BA101 Calculus → ITB0100 University Mathematics('03) → ITB0100 Calculus('04) → BAT0100 Calculus('09) → MAS101 Calculus I/MAS105 College Mathematics(Dept. of Mathematical Science, '09) → MAS101 Calculus I('10)

⑤ ITB0200 Mathematics for Economic Analysis → ITB0101 Mathematics for Business and Economics('03) → BAT0101 Mathematics for Business and Economics('09) → MAS102 Calculus II/MAS109 Introduction to Linear Algebra(Dept.of Mathematical Science, '09)

⑥ ITB0202 Principles of Microeconomics → ITB0112 Principles of Microeconomics('04) → ITB0115 Fundamentals of Economics('05) → BAT0115 Fundamentals of Economics → HSS0159 Introduction to Economics('09)

⑦ BA0203 Principle of Accounting → ITB0231 Principle ofFinance('03) → ITB0130 Principle of Accounting('05) → BAT0130 Principle of Accounting('09) → MSB0230 Principle of Accounting('09)

⑧ ITB0204 Principle of Internet Economics → ITB0110 Principles of Business Administration('03) → ITB0113 Principles of Business Administration I('04) → BAT0113 Principles of Business Administration I('09) → MSB0200 Introduction to Business Management('09)

⑨ ITB0307 Economics Money, Banking, and Financial Market → ITB0212 Economics Money, Banking, and Financial Market('04) → ITB0316 Macroeconomics('05) → BAT316 Macroeconomics('09) → MSB316 Macroeconomics('09)

⑩ ITB0114 Principles of Business Administration II → ITB 0238 Organizational Behavior('05) → BAT238 Organizational Behavior('09) → MSB0238 Organizational Behavior('09)

⑪ ITB0103 Probability and Statistics → IE241 Engineering Statistics I/IE341 Engineering Statistics II(Dept. of Industrial and Systems Engineering,'09) → MAS250(Probability and Statistics) ('13)

⑫ ITB0237 Introduction to MIS → BAT0237 Introduction to MIS('09) → MSB0237 Introduction to MIS('09)


■ **Interdisciplinary Courses** (Refer to the course requirements by student numbers)
   ○ Students admitted in 2002-2009: at least 12 credits
      ※ There's no Mandatory Interdisciplinary Course.
      ※ Programming Fundamentals(C++ and JAVA) can be recognized as

interdisciplinary or elective major.

※ Undergraduate Students of (old) IT Business can take not only the courses form ICC but also all the Major courses of the college of Engineering as interdisciplinary courses (with the exception of courses related to economics/ management). If it is not clear to recognize certain courses of other departments as interdisciplinary courses, the Undergraduate Head Professor can examine the courses and approve them as interdisciplinary courses.

■ **Major:**

○ Students admitted in 2002: Mandatory Major Courses 12 credits, Elective Major Courses at least 51 credits

○ Students admitted in 2003: Mandatory Major Courses 12 credits, Elective Major Courses at least 60 credits

○ Students admitted in 2004-2005: Mandatory Major Courses 12 credits, Elective Major Courses at least 57 credits

○ Students admitted in 2006-2009: Mandatory Major Courses 12 credits, Elective Major Courses at least 54 credits

※ 'Macroeconomics' has been recognized as an elective major course since 2006.

○ Course Requirements by Student numbers

| Student No. | Requirements |
|---|---|
| 2009 | ○ Mandatory Major: 12 credits<br>ITB0235 Financial Management, ITB0236 Marketing Management, ITB0338 Strategic Management, ITB0354 Operations Management<br>○ Elective Major: 54 credits<br>○ Interdisciplinary: 12 credits<br>○ Research: 8 credits(ISUP A(2), ISUP B(2), UP(4), Internship) |
| 2006-2008 | ○ Mandatory Major: 12 credits<br>ITB0235 Financial Management, ITB0236 Marketing Management, ITB0338 Strategic Management, ITB354 Operations Management<br>○ Elective Major: 54 credits<br>○ Interdisciplinary: 12 credits<br>○ Research: 8 credits(ISUP A(2), ISUP B(2), UP(4), Internship) |
| 2005 | ○ Mandatory Major: 12 credits<br>ITB0235 Financial Management, ITB0236 Marketing Management, ITB0338 Strategic Management, ITB0354 Operations Management<br>○ Elective Major: 57credits<br>○ Interdisciplinary: 12 credits<br>○ Research: 12 credits(ISUP A(3), ISUP B(3), UP(6), Internship) |
| 2004 | ○ Mandatory Major: 12 credits<br>ITB231 Financial Management, ITB0233 Marketing Management, ITB0338 |

| | |
|---|---|
| | Strategic Management, BAT344 Management Information System<br>○ Elective Major: 57credits<br>○ Interdisciplinary: 12 credits<br>○ Research: 12 credits (ISUP A(3), ISUP B(3), UP(6), Internship) |
| 2002~2003 | ○ Mandatory Major: 12 credits<br>ITB231 Financial Management, ITB0233 Marketing Management, ITB0250 Development Strategy for E-business, BAT344 Management Information System<br>○ Elective Major: admission year of 2002 (51 credits), 2003 (60 credits)<br>○ Interdisciplinary: admission year of 2002 (21 credits), 2003 (12 credits)<br>- If students admitted in 2002 or 2003 follow the course requirements applicable to students admitted in 2003 or 2004, the credits over taken in the interdisciplinary courses (12 credits) can be recognized as elective major courses to a maximum of 6 credits.<br>○ Research: 12 credits (ISUP A(3), ISUP B(3), UP(6), Internship) |

○ Substitute Courses

① ITB0231 Financial Management(→ Principles of Finance), ITB0235 Financial Management('05) → BAT235 Financial Management('09) → MSB235 Financial Management('09)

② ITB0233 Introduction to Marketing → ITB0236 Marketing Management('05) → BAT236 Marketing Management('09) → MSB236 Marketing('09)

③ ITB0250 Development Strategy for E-Business → ITB0315 Development Strategy for E-Business('05) → BAT315 Development Strategy for E-Business → MSB416 E-Biz Strategy for Korea('09)

④ ITB0338 Strategic Management('05) → BAT338 Strategic Management('09) → MSB343 Business Strategy('09)

⑤ ITB0354 Operations Management → BAT354 Operations Management('09) → MSB354 Operations Management('09)

⑥ ITB0105 Programming Fundamentals(C,C++) → ITB0122 Programming Fundamentals Ⅰ('03) → ICE0125 Programming Fundamentals('04)

⑦ ICE0124 Programming Fundamentals I-JAVA → CS101 Introduction to Programming(Dept. of Computer Science, '09)

⑧ ICE0120 Introduction to Computer Science → CS202 Problem Solving/ CS220 Programming Principles(Dept. of Computer Science, '10)


▣ **Minor:** at least 21 credits

※ This course requirements applies only to students who applied for a minor in (old) IT Business in or before Spring term 2009.

※ a cumulative GPA of at least 2.0/4.3 in minor courses.

- Mandatory Major Courses: at least 12 credits

- Elective Major Courses: at least 9 credits

| Classification | Credits | Course | Substitute Course |
|---|---|---|---|
| Mandatory Major | 12 | BAT113 Principles of Business Administration (I) | MSB200 Introduction to Business Management |
| | | BAT115 Fundamentals of Economics | HSS159 Introduction to Economics |
| | | BAT130 Principle of Accounting | MSB230 Principles of Accounting |
| | | BAT235 Financial Management | MSB235 Financial Management |
| | | BAT236 Marketing Management | MSB236 Marketing |
| Elective Major | 9 | BAT200~400 level, graduate courses | MSB200~400 level, graduate courses |

◙ **Double Major:** at least 42 credits

　※ This course requirements applies only to students who applied for a double major in (old) IT Business in or before Spring term 2009.

　※ a cumulative GPA of at least 2.0/4.3 in double major courses.

- Mandatory Major Courses: at least 15 credits
- Elective Major Courses: at least 27 credits

| Classification | Credits | Course | Substitute Course |
|---|---|---|---|
| Mandatory Major | 15 | BAT113 Principles of Business Administration (I) | MSB200 Introduction to Business Management |
| | | BAT115 Fundamentals of Economics | HSS159 Introduction to Economics |
| | | BAT130 Principle of Accounting | MSB230 Principles of Accounting |
| | | BAT235 Financial Management | MSB235 Financial Management |
| | | BAT236 Marketing Management | MSB236 Marketing |
| Elective Major | 27 | BAT200~400 level, graduate courses | MSB200~400 level, graduate courses |

◙ **Research Courses:**

　　○ Students admitted in 2002-2005: at least 12 credits

　　　- Each 3 credits of ISUP A/B, 6 credits of UP, at least 12 credits of Internship

　　○ Students admitted in 2006-2009: at least 8 credits

　　- Each 2 credits of ISUP A/B, 4 credits of UP, at least 8 credits from Internship or ISUP/UP


◙ **English Language Requirements for Graduation : Students admitted in or after 2005**

　　○ IBT TOEFL: at least 88, TOEIC: at least 840, TEPS: at least 743, IELTS: at least 6.5

　　○ IBT TOEFL: at least 79, TOEIC: at least 800, TEPS: at least 695, IELTS: at least 6.0 & a minimum GPA of 3.0 in English courses

　　※ The students who graduate after November 2013 can be applied to english language requirements of KAIST.
　　TOEIC720, TOEFL(CBT) 220, TOEFL(IBT) 83, TOEFL(PBT) 560, IELTS 6.5, TEPS 599

□ **Interim Measures**

○ Refer to each completion requirements, since the completion requirements of general and common courses are different according to the admitted year.

- Students can choose to follow the completion requirements applicable to students admitted after their admission year, except the requirements for students admitted in 2009. For instance, students admitted before 2005 can choose to follow the completion requirements of their admission year or the requirements of 2006, in case that they graduate with other students admitted in or after 2006 due to the change of academic status.

| Classification (Year) | Course Requirements | | | | |
|---|---|---|---|---|---|
| | 2002 | 2003 | 2004-2005 | 2006-2008 | 2009 |
| 2002 | ○ | ○ | ○ | ○ (Academic Status Change) | |
| 2003 | | ○ | ○ | | |
| 2004 | | | ○ | | |
| 2005 | | | ○ | | |
| 2006 - 2008 | | | | ○ | |
| 2009 | | | | | ○ |

※ Even though students choose to follow the completion requirements applicable to students admitted after their admission year (except for 2009), they can follow the requirements of general courses (including English courses) applied to their admission year.

○ Principles of Business Administration (Ⅱ) can be recognized as common courses or elective major courses in case that students admitted in or before 2003 take the course.

○ Matters related to the curriculum are based on the admission year, except for the anything in particular. If certain courses are changed or abolished, students must take the substitute courses.

○ If there are extra cases other than bulletin or guidelines concerning course completion, it is a rule to follow the department policy. If there are any objections to mediate, they can be decided through deliberation of related committee.

○ If there is an academic status change due to the change of major, the course with the same title can be recognized as the same classification for course requirements regardless of the different course numbers.

e.g. In case a student of Informations and Communications Engineering change his major to IT Business department, ICE103 Probability and Statistics (Mandatory Common of Communication Engineering) taken before can be recognized as BAT 103 Probability and Statistics (Mandatory Common of IT Business).

# Major Course Requirements for
# Business and Technology Management (IT Business)
## (For Master's Program)

**Thesis Master's Degree Program**

▣ **Credit Requirements for Graduation:**
   ○ **Students admitted in 2005 or before: at least 45 credits**
   ○ **Students admitted in 2005-2009: at least 46 credits**

▣ **Mandatory Common:** 1 credit
   ○ Students admitted in 2005-2009 : 1 credit (COM0505, COM0506 Thesis Writing Skills(1) or Scientific Writing(3))

▣ **Major:** at least 24 credits
   ○ **Mandatory Major Courses:** 3 credits
      (BAT605 Research Methodology I,  BAT895 Research Methodology II)
   ○ **Elective Major Courses:** at least 21 credits

▣ **Interdisciplinary Courses:** at least 6 credits
   ○ The courses of ICC, College of engineering or College of Culture Technology can be recognized as interdisciplinary courses. The recognition of interdisciplinary courses requires the advisor approval.
   ○ BAT0601 Introduction to Telecommunication System can be recognized as an interdisciplinary course.

▣ **Research Courses:** at least 15 credits
   ○ Internship 6 credits, Thesis research credit 9 credits
   ○ The Internship course can be exempted by the approval of the principal. In this case, additional 6 credits of thesis research are required.

▣ **English Language Requirements for Graduation**
   ○ Students admitted in 2005 or before
      - at least TOEFL(IBT) 79, IELTS 6.0, TEPS 695
      - at least TOEIC 800
   ○ Students admitted in 2006 or after
      - at least TOEFL(IBT) 88, IELTS 6.5, TEPS 743

- at least TOEIC 840
※ If students published one or more papers in international conferences (in the case that students published more papers than required by the department),
  - at least TOEFL(IBT) 79, TOEFL(PBT) 550, TOEFL(CBT) 213
  - at least TOEIC 800
※ The students who graduate after November 2013 can be applied to english language requirements of KAIST.
  TOEIC720, TOEFL(CBT) 220, TOEFL(IBT) 83, TOEFL(PBT) 560, IELTS 6.5, TEPS 599


▣ **Thesis Requirements**
　○ Either submission of a paper in a domestic or an international journal or presentation of a paper at an international conference where at least 5 countries participate.

# Major Course Requirements for
# Business and Technology Management (IT Business)
## (For Doctoral Program)

▣ **Credit Requirements for Graduation:**
  ○ **Students admitted in 2005 or before: at least 69 credits**
  ○ **Students admitted in 2005-2009: at least 70 credits**

▣ **Mandatory Common:** 1 credit
  ○ Students admitted in 2005-2009 : 1 credit (COM0505, COM0506 Thesis Writing Skills(1) or Scientific Writing(3))

▣ **Major:** at least 42 credits

▣ **Interdisciplinary Courses:** at least 9 credits
  ○ The courses of ICC, College of engineering or College of Culture Technology can be recognized as interdisciplinary courses. The recognition of interdisciplinary courses requires the advisor approval.
  ○ BAT0601 Introduction to Telecommunication System can be recognized as an interdisciplinary course.

▣ **Research Courses:** at least 18 credits
  ○ Internship 6 credits, Thesis research credit 12 credits
  ○ The Internship course can be exempted by the approval of the principal. In this case, additional 6 credits of thesis research are required.

▣ **English Language Requirements for Graduation**
  - at least TOEFL(IBT) 88, IELTS 6.5, TEPS 743
  - at least TOEIC 840
  ※ If students published one or more papers in SCI/SSCI journals as a first author(in the case that students published more papers than required by the department),
    - at least TOEFL(IBT) 79, IELTS 6.0, TEPS 695
    - at least TOEIC 800
  ※ The students who graduate after November 2013 can be applied to english language requirements of KAIST.
    TOEIC720, TOEFL(CBT) 220, TOEFL(IBT) 83, TOEFL(PBT) 560, IELTS 6.5,

TEPS 599

■ **Pass the Doctorate Qualifying Exams (Qualifying Exams & Field Exams)**

■ **Dissertation Requirements**
   ○ Publish at least one paper in a SCI/SSCI journal (Published or Acceptance Letter)

# Major Course Requirements for
# Business and Technology Management (IT Business)
## (For MS-PhD Integrated Program)

◼ **Credit Requirements for Graduation:**
 ○ **Students admitted in 2005 or before: at least 69 credits**
 ○ **Students admitted in 2005-2009: at least 70 credits**

◼ **Mandatory Common:** 1 credit
 ○ Students admitted in 2005-2009 : 1 credit (COM0505, COM0506 Thesis Writing Skills(1) or Scientific Writing(3))

◼ **Major:** at least 42 credits

◼ **Interdisciplinary Courses:** at least 9 credits
 ○ The courses of ICC, College of engineering or College of Culture Technology can be recognized as interdisciplinary courses. The recognition of interdisciplinary courses requires the advisor approval.
 ○ BAT0601 Introduction to Telecommunication System can be recognized as an interdisciplinary course.

◼ **Research Courses:** at least 18 credits
 ○ Internship 6 credits, Thesis research credit 12 credits
 ○ The Internship course can be exempted by the approval of the principal. In this case, additional 6 credits of thesis research are required.

◼ **English Language Requirements for Graduation**
  - at least TOEFL(IBT) 88, IELTS 6.5, TEPS 743
  - at least TOEIC 840
  ※ If students published one or more papers in SCI/SSCI journals as a first author(in the case that students published more papers than required by the department),
   - at least TOEFL(IBT) 79, IELTS 6.0, TEPS 695
   - at least TOEIC 800
  ※ The students who graduate after November 2013 can be applied to english language requirements of KAIST.

TOEIC720, TOEFL(CBT) 220, TOEFL(IBT) 83, TOEFL(PBT) 560, IELTS 6.5, TEPS 599

◼ **Pass the Doctorate Qualifying Exams (Qualifying Exams & Field Exams)**

◼ **Dissertation Requirements**
   ○ Publish at least one paper in a SCI/SSCI journal (Published or Acceptance Letter)