

## Course Requirements

### □ Undergraduate

#### A. Graduation Credits

- Students who entered in or before 2005 : at least 144 credits.
- Students who entered in 2006~2009 : at least 134 credits.
- Students who entered in 2010 : at least 130 credits.
- \* GPA of all completed subjects must be 2.0/4.3 or better

#### B. General Course Requirements

- Students who entered in or before 2008 : Refer to completion requirements by student numbers
- Students who entered in 2009 : at least 24 credits & 5 AU
  - ◇ Mandatory General Courses : 6credits, 5AU
    - English Communication(1), Critical Thinking in English(2), Writing(3), Physical Education(2), Community Service(2AU), Humanity/Leadership(2AU), Ethics and Safety(1AU)
  - ◇ Elective General Courses : at least 18 credits. (Physical Education(2))
- Students who entered in 2010 : at least 27 credits & 9AU
  - ◇ Mandatory General Courses : English Communication(1), Critical Thinking in English(2), Writing(3), Physical Education(4AU), Community Service(2AU), Humanity/Leadership(2AU), Ethics and Safety(1AU)
  - ◇ Elective General Courses in Humanities & Social Science : at least 21 credits(at least 7 courses)
    - Student must complete more than 21 credits including more than one subject each (9 credits) among 3 field (humanities, Social science, language and linguistics)
    - Student must complete more than 18 credits in English-spoken lecture among 21 credit (minimum requisite of human society elective)

#### C. Common courses (≠ Students who entered in 2002~2009)

- Students who entered in 2002~2005 : Refer to completion requirements by student numbers
- Students who entered in 2006~2009 : at least 24 credits.
  - ◇ Mandatory Common : Calculus(3), Mathematics for Business and Economics(3), Probability and Statistics(3), Fundamentals of Economics(3), Principles of Business Administration I(3), Organizational Behavior(3), Principle of Accounting(3), Introduction to MIS(3)

#### D. Basic Course Requirements(at least 36 credits)(≠ Students who entered in 2010)

- Mandatory Basic Courses: 27 credits (1 course from each of the following 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 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 II (1)
  - ⑨ 1 course of Basic Programming (3) or Advanced Programming (3)
  - ⑩ Freshmen Design Course(4) - Introduction to System Design(3), Communication for Design(1) 2 subject (Student must take 2 subject at the same time when freshman)
- Elective Basic Courses: Must complete more than 9 credits including Probability and Statistics(3),

## Introduction to Linear Algebra(3)

### E. Major Course Requirements

- Students who entered in 2002~2005 : Refer to completion requirements by student numbers
- Students who entered in 2006~2009 : at least 66 credits.
  - ◇ Mandatory Major Courses : 12 credits.
    - Financial Management(3), Marketing Management(3), Strategic Management(3), Operations Management(3)
  - ◇ Elective Major Courses : at least 54 credits.
- Students who entered in 2010 : at least 51 credits
  - ◇ Mandatory Major Courses : 24 credits.
    - Principles of Business Administration I(3), Fundamentals of Economics(3), Organizational Behavior(3), Principle of Accounting(3), Introduction to MIS(3), Financial Management(3), Marketing Management(3), Operations Management(3)
  - ◇ Elective Major Courses : at least 27 credits.

### F. Interdisciplinary Course Requirements(≠ Students who entered in 2002~2009)

- Students who entered in 2002~2005 : Refer to completion requirements by student numbers
- Students who entered in 2006~2009 : at least 12 credits.
  - ◇ Mandatory Interdisciplinary Courses : 6 credits.(Programming Fundamentals I(Java), Introduction to Computer Science)
  - ◇ Elective Interdisciplinary : at least 6 credits.

### G. Research Course Requirements

- Students who entered in 2002~2004
  - Each 3 credits of ISUP A/B, 6 credits of UP, more than 12 credits of Internship
- Students who entered in 2005~2010
  - Each 2 credits of ISUP A/B, 4 credits of UP, more than 8 credits of Internship
- Students who entered in 2010
  - Each 2 credits of ISUP A/B, 4 credits of UP, more than 3 credits of Internship

### H. Elective Course Requirements : at least 13 credits.(≠ Students who entered in 2010)

### I. English Language Requirements for Graduation(≠ Students who entered in and after 2005)

- One of the following should be satisfied
  - IBT TOEFL score: at least 88 or TOEIC score : at least 840 or TEPS score : at least 743 or IELTS score : at least 6.5
  - IBT TOEFL score: at least 79 or TOEIC score : at least 800 or TEPS score : at least 695 or IELTS score : at least 6.0 & more than 3.0 of English subject G.P.A.

### J. Requirements for a minor in IT Business : Must complete more than 18 credits from major courses including Principles of Business Administration I(3), Principle of Accounting(3)

### K. Requirements for a double major : Must complete more than 51 credits from major courses including elective basic ' Probability and Statistics (3) and 24 credits of mandatory major

### L. Progress arrangement and the others

- Refer to each completion requirements, since the completion requirements of general and common courses

are different according to entering year.

- Enterer of each year can choose conditions for graduation. If one entered before 2005 and graduating with enterers after 2006, one can choose either the course of entering or 2006 course.
  - ex) Enterer of 2003 year can choose among the conditions of 2003, 2004, 2005, 2006
- When the enterer of each year choose the graduation condition of after the year of his enter year, completed credit for general course can be applied by the course requirement credit of the entering time.
- If enterer of before 2003 year take 'Principles of Business Administration II', it can be recognized as mandatory basic or elective major.
- Course related facts are based on entering year except for specially appointed things. If the course was ended or changed, one must take substitute course.
- If there's extra case other than manual or guideline concerning course completion, follow the policy of the department first. In case of objection or mediation, it can be decided through deliberation of related committee.
  
- If there's change on school register due to change of major, completed classification can be recognized the same on different course number but same title subject.
  - ex) In case a student of Informations and Communications Engineering change his major to IT Business department, ICE0103 Probability and Statistics (Mandatory common) can be recognized as taking BAT 103 Probability and Statistics (Mandatory common)

\* Note

Student must check every requirement for graduation (course completion requirements, etc.) on his own head.

# General Course - Completion Requirements by student number & Substitute Course

## 1. Completion requirements by student numbers

Student No.	Requirements
2010	<ul style="list-style-type: none"> <li>◦ Mandatory Basic Course: 6 credits               <ul style="list-style-type: none"> <li>- English(3), English Communication , Critical Thinking in English</li> <li>- Writing(3)</li> <li>- Physical Education 4AU, Community Service 2AU, Humanity/Leadership 2AU, Ethics and Safety 1AU</li> </ul> </li> <li>◦ Elective General Courses in Humanities &amp; Social Science: 21</li> </ul>
2009	<ul style="list-style-type: none"> <li>◦ Mandatory Basic Course: 6 credits, 5AU               <ul style="list-style-type: none"> <li>- English(3), English Communication , Critical Thinking in English</li> <li>- Writing(3)</li> <li>- Community Service 2AU, Humanity/Leadership 2AU, Ethics and Safety 1AU</li> </ul> </li> <li>◦ Elective Basic Course: 18 credits (Physical Education(2))</li> </ul>
2004 ~ 2008	<ul style="list-style-type: none"> <li>◦ Mandatory Basic Course: 12 credits               <ul style="list-style-type: none"> <li>- Listening and Pronunciation IV(1), Conversation IV(1), Reading IV(1), Writing IV(1), Listening and Pronunciation V(1), Conversation and Presentation V(1), Reading V(1), Writing V(1)</li> <li>- The Art of Technical Writing(1)                   <ul style="list-style-type: none"> <li>※ For foreign student, substitution is possible when Korean Language I is 3.0/4.3 or more</li> </ul> </li> <li>- Colloquium(1)                   <ul style="list-style-type: none"> <li>※ For foreign student, substitution is possible when Korean Language II is 3.0/4.3 or more</li> </ul> </li> <li>- University Hour(0)                   <ul style="list-style-type: none"> <li>※ For foreign student, can be substituted by Korean Culture and History</li> </ul> </li> <li>- Physical Education(2)</li> </ul> </li> <li>◦ Elective Basic Course: 12 credits</li> </ul>
2003	<ul style="list-style-type: none"> <li>◦ Mandatory Basic Course: 16 credits               <ul style="list-style-type: none"> <li>- UCR Language Program(10)</li> <li>- Philosophy of Science(2)</li> <li>- Colloquium(1)</li> <li>- The Art of Technical Writing(1)</li> <li>- University Hour(0)</li> <li>- Physical Education(2)</li> </ul> </li> <li>◦ Elective Basic Course: 8 credits</li> </ul>
2002	<ul style="list-style-type: none"> <li>◦ Mandatory Basic Course: 14 credits               <ul style="list-style-type: none"> <li>- UCR Language Program(10)</li> <li>- IT Leadership(2)</li> <li>- University Hour(0)</li> <li>- Physical Education(2)</li> </ul> </li> <li>◦ Elective Basic Course: 10 credits</li> </ul>

## 2. Completion of substitute subject

Substitute subject for closed or changed subject

- ① COM0110 Philosophy of Science → COM0164 Science and Technology, COM0133 Western Philosophy
- ② The Art of Technical Writing in Korean → 1 course of The Art of Technical Writing, Philosophy of Science, Oriental Philosophy, Korean History, Modern World History, Introduction to Sociology, Introduction to Psychology, Introduction to Communications
- ③ Art I (Understanding Music) → Understanding Music
- ④ Art II (Understanding Arts) → Understanding Arts
- ⑤ Physical Education I → Physical Education I (Golf)
- ⑥ Physical Education II → Physical Education II (Swimming)
- ⑦ Physical Education IV → Physical Education III (Skiing)

- ⑧ Practical Sino-Korean(COM0109) → Practical Sino-Korean(COM0140)  
 ⑨ Practical Sino-Korean(COM0140) → Classics of The East and West(COM0163)  
 ⑩ Logic → Philosophy of Science, Oriental Philosophy, Western Philosophy, Modern World History, Introduction to Sociology, Introduction to Psychology, Introduction to Communications  
 ⑪ IT Leadership→Philosophy of Science, Oriental Philosophy, Korean History, Modern World History, Introduction to Sociology, Introduction to Psychology, Introduction to Communications  
 ⑫ Understanding Philosophy → more than 1 credit of Philosophy of Science, Oriental Philosophy, Western Philosophy and other liberal course  
 ⑬ For foreign student, Writing can be substituted when Korean Language I is 3.0/4.3 or more  
 ⑭ For foreign student, University Hour can be substituted when Korean Language II is 3.0/4.3 or more.  
 ⑮ UCR Language Program 10 Credits → Current English subject 8 Credits

Student entered in 2002			Student entered since 2004	
Semester	Course no.	Percentage by skills	Re-taking course	
Spring, Fall (4 credit each)	COM100	DOPS(50%)	'Conversation', 'Listening/Pronunciation'	
		RWTP(50%)	'Reading', 'Writing'	
Summer (2 credit)	COM100	DOPS(50%)	choose one from 'Conversation' or 'Listening/Pronunciation'	
		RWTP(50%)	choose one from 'Reading' or 'Writing'	
Student entered in 2003			Student entered since 2004	
Semester	Course no.	Percentage by skills	Re-taking course	
Spring, Fall (4 credit each)	COM100	DOPS(40%)	'Conversation', 'Listening/Pronunciation'	
		RWTP(40%)	'Reading', 'Writing'	
		LAB(20%)	'Listening/Pronunciation'	
Summer (2 credit)	COM100	DOPS(40%)	choose one from 'Conversation' or 'Listening/Pronunciation'	
		RWTP(40%)	choose one from 'Reading' or 'Writing'	
		LAB(20%)	'Listening/Pronunciation'	
- DOPS=Discussion and Oral Presentation Skills				
- RWTP=Reading and Writing for Technical Purposes				

- Credit recognition standard is to absolve the duty of taking class through authorized test (TEPS/TOEFL/IELTS) and give the score as "S"

Classification	Exemption list of English course		English Score	Remark
	Course Name (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	

# Common Course - Completion Requirements by student number & Substitute Course

## 1. Completion requirements by student numbers

Student No.	Requirements
2006~2009	<ul style="list-style-type: none"> <li>◦ Mandatory Common : <b>Must complete total 24 credits</b> MAS101 Calculus 1, MAS105 Elective general, MAS102 Calculus II, MAS109 Introduction to Linear Algebra, IE241 Engineering Statistics I, IE341 Engineering Statistics II, BAT115 Fundamentals of Economics, BAT113 Principles of Business Administration I, BAT238 Organizational Behavior, BAT130 Principle of Accounting, BAT237 Introduction to MIS</li> </ul>
2005	<ul style="list-style-type: none"> <li>◦ Mandatory Common : <b>Must complete total 27 credits</b> BAT100 Calculus, BAT101 Mathematics for Business and Economics, BAT103 Probability and Statistics, BAT115 Fundamentals of Economics, BAT113 Principles of Administration I, BAT238 Organizational Behavior, BAT121 Programming Fundamentals I-JAVA, BAT130 Principle of Accounting, BAT237 Introduction to MIS</li> </ul>
2004	<ul style="list-style-type: none"> <li>◦ Mandatory Common : <b>Must complete total 27 credits</b> BAT100 Calculus, BAT101 Mathematics for Business and Economics, BAT103 Probability and Statistics, BAT112 Principles of Microeconomics, BAT113 Principles of Business Administration I, BAT114 Principles of Business Administration II, BAT121 Programming Fundamentals I-JAVA, BAT130 Principle of Accounting, BAT212 Economics of Money, Banking, and Financial Market</li> </ul>
2002~2003	<ul style="list-style-type: none"> <li>◦ Mandatory Common : <b>Must complete total 24 credits</b> BAT100 Calculus, BAT101 Mathematics for Business and Economics, BAT103 Probability and Statistics, BAT112 Principles of Microeconomics, BAT110 Principles of Business Administration, BAT122 Programming Fundamentals II-C,C++, BAT130 Principle of Accounting, BAT212 Economics of Money, Banking, and Financial Market</li> </ul>

## 2. Substitute course

- ① BA101 Calculus → ITB0100 University Mathematics → BAT100 Calculus → MAS101 Calculus 1, MAS105 Elective general
- ② BA201 Mathematics for Economic Analysis → BAT101 Mathematics for Business and Economics → MAS102 Calculus II, MAS109 Introduction to Linear Algebra
- ③ BAT103 Probability and Statistics → IE241 Engineering Statistics I, IE341 Engineering Statistics II
- ④ BA204 Internet Business Management → BAT110 Principles of Business Administration → BAT113 Principles of Business Administration I
- ⑤ BAT114 Principles of Business Administration II → BAT238 Organizational Behavior
- ⑥ BA203 Financial Accounting → BAT130 Financial Accounting → BAT130 Principle of Accounting
- ⑦ BA307 Macroeconomics → BAT212 Economics of Money, Banking, and Financial Market

## Major Course - Completion Requirements by student number & Substitute Course

### 1. Completion requirements by student numbers

Student No.	Requirements
2010	<ul style="list-style-type: none"> <li>◦ Mandatory Major : 24 credits BAT113 Principles of Business Administration I, BAT115 Fundamentals of Economics, BAT238 Organizational Behavior, BAT130 Principle of Accounting, BAT237 Introduction to MIS, BAT235 Financial Management, BAT236 Marketing Management, BAT354 Operations Management</li> <li>◦ Elective Major : 27 credits</li> <li>◦ Interdisciplinary : 12 credits               <ul style="list-style-type: none"> <li>- Mandatory Interdisciplinary : CS101 Introduction to Programming, CS202 Problem Solving</li> </ul> </li> <li>◦ Research credit : 3 credits               <ul style="list-style-type: none"> <li>- ISUP A(2), ISUP B(2), UP(4), Internship</li> </ul> </li> </ul>
2009	<ul style="list-style-type: none"> <li>◦ Mandatory Major : <b>12</b> credits BAT235 Financial Management, BAT236 Marketing Management, BAT338 Strategic Management, BAT354 Operations Management</li> <li>◦ Elective Major : 54 credits</li> <li>◦ Interdisciplinary : 12 credits               <ul style="list-style-type: none"> <li>- Mandatory Interdisciplinary : Programming Fundamentals I (JAVA), Introduction to Computer Science</li> </ul> </li> <li>◦ Research credit : 8 credits               <ul style="list-style-type: none"> <li>- ISUP A(2), ISUP B(2), UP(4), Internship</li> </ul> </li> </ul>
2006~2008	<ul style="list-style-type: none"> <li>◦ Mandatory Major : <b>12</b> credits BAT235 Financial Management, BAT236 Marketing Management, BAT338 Strategic Management, BAT354 Operations Management</li> <li>◦ Elective Major : 54 credits</li> <li>◦ Interdisciplinary : 12 credits               <ul style="list-style-type: none"> <li>- Mandatory Interdisciplinary : Programming Fundamentals I (JAVA), Introduction to Computer Science</li> </ul> </li> <li>◦ Research credit : 8 credits               <ul style="list-style-type: none"> <li>- ISUP A(2), ISUP B(2), UP(4), Internship</li> </ul> </li> </ul>
2005	<ul style="list-style-type: none"> <li>◦ Mandatory Major : <b>12</b> credits BAT235 Financial Management, BAT236 Marketing Management, BAT338 Strategic Management, BAT354 Operations Management</li> <li>◦ Elective Major : 54 credits</li> <li>◦ Interdisciplinary : 12 credits               <ul style="list-style-type: none"> <li>- Mandatory Interdisciplinary : Programming Fundamentals II (C,C++), Introduction to Computer Science</li> </ul> </li> <li>◦ Research credit : 12 credits               <ul style="list-style-type: none"> <li>- ISUP A(3), ISUP B(3), UP(6), Internship</li> </ul> </li> </ul>
2004	<ul style="list-style-type: none"> <li>◦ Mandatory Major : <b>12</b> credits BAT235 Financial Management, BAT236 Marketing Management, BAT338 Strategic Management, BAT344 Management Information System</li> <li>◦ Elective Major : 54 credits</li> <li>◦ Interdisciplinary : 12 credits               <ul style="list-style-type: none"> <li>- Mandatory Interdisciplinary : Programming Fundamentals II (C,C++), Introduction to Computer Science</li> </ul> </li> <li>◦ Research credit : 12 credits               <ul style="list-style-type: none"> <li>- ISUP A(3), ISUP B(3), UP(6), Internship</li> </ul> </li> </ul>
2002~2003	<ul style="list-style-type: none"> <li>◦ Mandatory Major : <b>12</b> credits BAT235 Financial Management, BAT236 Marketing Management, BAT250 Development Strategy for E-business, BAT344 Management Information System</li> <li>◦ Elective Major : 60 credits</li> <li>◦ Interdisciplinary : 12 credits               <ul style="list-style-type: none"> <li>- Mandatory Interdisciplinary : Programming Fundamentals I (JAVA)</li> <li>- If Student who entered in 2002,2003 choose the course of 2003, 2004, course taken over interdisciplinary credit(12 credits) can be recognized as elective major until maximum 6 credits.</li> </ul> </li> <li>◦ Research credit : 12 credits               <ul style="list-style-type: none"> <li>- ISUP A(3), ISUP B(3), UP(6), Internship</li> </ul> </li> </ul>

## 2. Substitute course

- ① BAT231 Principles of Finance → BAT235 Financial Management
- ② BAT233 Introduction to Marketing → BAT236 Marketing Management
- ③ BAT250 Development Strategy for E-business → BAT315 Development Strategy for E-business
- ④ BAT344 Management Information System → BAT237 Introduction to MIS
- ⑤ BAT435 Organizational Behavior → BAT420 Human Resource Management
- ⑥ ICE124 Programming Fundamentals I-JAVA → CS101 Introduction to Programming
- ⑦ ICE120 Introduction to Computer Science → CS202 Problem Solving

## □ Master's Program

### A. Graduation Credits

- Students who entered in 2006 ~ 2009 : at least 46 credits.
- Students who entered in 2010 : at least 33 credits.

### B. Mandatory Common

- Students who entered in 2006 ~ 2009 : 1 credit(COM0505,COM0506 Thesis Writing Skills)
- Students who entered in 2010 : 3 credit(BAT500 Advanced Statistics for Management)

### C. Major Course Requirements

- Students who entered in 2006 ~ 2009 : at least 24 credits.
- Students who entered in 2010 : at least 27 credits.

#### ◇ Mandatory Major Courses : 6 credits.

- BAT605 Research Methodology I, BAT614 Innovation and R&D Policy in IT

#### ◇ Elective Major Courses : 21 credits.

### D. Interdisciplinary Course Requirements : 6 credits.(~~18~~ Students who entered in 2006 ~ 2009)

- Must complete Engineering course
- Besides Engineering course, 'BAT601 Introduction to Telecommunication' is recognized as interdisciplinary course.

### E. Research Course Requirements

- Students who entered in 2006 ~ 2009 : at least 15 credits.
  - Internship 6 credits, Thesis research credit 9 credits
  - Among Thesis research credit, up to 3 credits can be substituted in major course.
- Students who entered in 2010 : at least 3 credits.

### F. English Language Requirements for Graduation

- One of the following should be satisfied
  - IBT TOEFL score: at least 88 or TOEIC score : at least 840 or TEPS score : at least 743 or IELTS score : at least 6.5
  - IBT TOEFL score: at least 79 or TOEIC score : at least 800 or TEPS score : at least 695 or IELTS score : at least 6.0 & if he/she published one more paper at international conference than basically required by each major department. (if he/she published more papers at international conferences than required by the department)

## □ Doctoral Program

### A. Graduation Credits

- Students who entered in 2006 ~ 2009 : at least 70 credits.
- Students who entered in 2010 : at least 81 credits.

### B. Mandatory Common : the same as the Master's program; students who already earned 1 or 3 credits from their Master's course do not need to obtain 1 or 3 credits again.

### C. Major Course Requirements

- Students who entered in 2006 ~ 2009 : at least 42 credits.
- Students who entered in 2010 : at least 48 credits.
  - ◇ Mandatory Major Course : 6 credits.
    - BAT605 Research Methodology I, BAT895 Research Methodology II
  - ◇ Elective Major Course : 42 credits.

### D. Interdisciplinary Course Requirements : 9 credits(≠Students who entered in 2006 ~ 2009)

- Must complete Engineering course
- Besides Engineering course, 'BAT601 Introduction to Telecommunication' is recognized as interdisciplinary course.

### E. Research Course Requirements

- Students who entered in 2006 ~ 2009 : at least 18 credits.
  - Internship 6 credits, Thesis research credit 12 credits
- Students who entered in 2010 : at least 30 credits.

### F. English Language Requirements for Graduation

- One of the following should be satisfied
  - IBT TOEFL score: at least 88 or TOEIC score : at least 840 or TEPS score : at least 743 or IELTS score : at least 6.5
  - IBT TOEFL score: at least 79 or TOEIC score : at least 800 or TEPS score : at least 695 or IELTS score : at least 6.0 & if he/she published one more paper in a SCI/SSCI-rank journal than basically required by each major department (if he/she published more papers at SCI/SSCI-rank journals than required by the department)

## □ Progress arrangement

- This shall be effective from the student who entered Fall semester, 2006
- English Thesis Writing shall be effective from the student entered 2005 year
- In case of student entered before 2006, he/she can choose graduation requirements of after 2006. (Students who entered before 2006 may choose graduate requirements of students who entered after 2006)

**□ Substitutive subjects**

The courses below are substituted each other because the contents are very similar to those open in the department of Management Science.

**※ Undergraduate Program (25 courses)**

Course in IT Business	Substitutive Subject
BAT113	MSB200
BAT201	MSB201
BAT130	MSB230
BAT235	MSB235
BAT236	MSB236
BAT237	MSB237
BAT238	MSB238
BAT314	MSB301
BAT316	MSB316
BAT321	MSB321
BAT345	MSB337
BAT338	MSB338
BAT342	MSB342
BAT354	MSB354
BAT356	MSB356
BAT315	MSB402
BAT311	MSB412
BAT313	MSB413
BAT415	MSB415
BAT457	MSB416
BAT420	MSB420
BAT430	MSB430
BAT331	MSB435
BAT433	MSB436
BAT444	MSB444

**※ Graduate Program (22 courses)**

Course in IT Business	Substitutive Subject
BAT500	MSB500
BAT504	MSB504
BAT664	MSB530
BAT676	MSB535
BAT651	MSB536
BAT556	MSB537
BAT604	MSB538
BAT605	MSB601
BAT600	MSB613
BAT614	MSB614
BAT511	MSB615
BAT673	MSB635
BAT661	MSB638
BAT671	MSB644
BAT650	MSB650
BAT617	MSB656
BAT701	MSB701
BAT895	MSB702
BAT665	MSB730
BAT810	MSB810
BAT602	MSB813
BAT803	MSB838

## Requirement for student who entered before 2006

Program	Requirements
Master's Program	<ul style="list-style-type: none"> <li>A. Graduation Credits : at least 45 credits.</li> <li>B. Major Course : at least 24 credits.</li> <li>C. Interdisciplinary Course : at least 9 credits.</li> <li>D. Research Course : at least 12 credits.                             <ul style="list-style-type: none"> <li>- Internship 6 credits, Thesis research credit 6 credits</li> </ul> </li> <li>E. English Language                             <ul style="list-style-type: none"> <li>◦ One of the following should be satisfied                                     <ul style="list-style-type: none"> <li>- IBT TOEFL score: at least 79 or TOEIC score : at least 800 or TEPS score : at least 695 or IELTS score : at least 6.0</li> </ul> </li> </ul> </li> </ul>
Doctoral Program	<ul style="list-style-type: none"> <li>A. Graduation Credits : at least 69 credits.</li> <li>B. Major Course : at least 42 credits.</li> <li>C. Interdisciplinary Course : at least 9 credits.</li> <li>D. Research Course : at least 18 credits.                             <ul style="list-style-type: none"> <li>- Internship 6 credits, Thesis research credit 12 credits</li> </ul> </li> <li>E. English Language                             <ul style="list-style-type: none"> <li>◦ One of the following should be satisfied                                     <ul style="list-style-type: none"> <li>- IBT TOEFL score: at least 88 or TOEIC score : at least 840 or TEPS score : at least 743 or IELTS score : at least 6.5</li> <li>- IBT TOEFL score: at least 79 or TOEIC score : at least 800 or TEPS score : at least 695 or IELTS score : at least 6.0 &amp; if he/she published one more paper in a SCI/SSCI-rank journal than basically required by each major department</li> </ul> </li> </ul> </li> </ul>