

Course Requirements for BTM Graduate Program

Course	Academic Year	Mandatory General	Major		Research	Total
			Mandatory	Elective		
Master's Program	2020 and thereafter	3	3	at least 18 credits	at least 9 credits (Seminar 2 ↑)	at least 33 credits
	2018~2019	3	6	at least 15 credits	at least 9 credits (Seminar 2 ↑)	at least 33 credits
	2015~2017	3+1AU	6	at least 15 credits	at least 9 credits (Seminar 2 ↑)	at least 33 credits
	admitted in 2014	3+1AU	6	at least 15 credits	at least 9 credits	at least 33 credits
	admitted in 2013 or before	3+1AU	3	at least 18 credits	at least 9 credits	at least 33 credits
Doctoral Program (MS-PhD Integrated Degree Program)	2020 and thereafter	3	3	at least 30 credits	at least 30 credits (Seminar 4 ↑)	at least 66 credits
	2018~2019	3	6	at least 27 credits	at least 30 credits (Seminar 4 ↑)	at least 66 credits
	2015~2017	3+1AU	6	at least 27 credits	at least 30 credits (Seminar 4 ↑)	at least 66 credits
	admitted in 2014	3+1AU	6	at least 27 credits	30 credits	at least 66 credits
	admitted in 2013 or before	3+1AU	3	at least 30 credits	at least 30 credits	at least 66 credits

Admission Year	Master's Program	Doctoral Program (MS-PhD Integrated Degree Program)
2020 and thereafter	<p>□ Master's Program (at least 33 credits)</p> <ul style="list-style-type: none"> ○ Mandatory General : 3 credits <ul style="list-style-type: none"> - CC010 Special Lecture on Leadership/ non-credit, this applies to students entering KAIST in 2002 and later; general scholarship students and international students are excluded) - CC020 Ethics and Safety I - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure ○ Mandatory Major : 3 credits <ul style="list-style-type: none"> - MSB510 Innovation Management and 	<p>□ Doctoral Program (at least 66 credits)</p> <ul style="list-style-type: none"> ○ Mandatory General : 3 credits <ul style="list-style-type: none"> - CC020 Ethics and Safety I - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure ○ Mandatory Major : 3 credits <ul style="list-style-type: none"> - MSB510 Innovation Management and

Admission Year	Master's Program	Doctoral Program (MS-PhD Integrated Degree Program)
	<p>Strategy</p> <ul style="list-style-type: none"> ○ Elective : at least 18 credits (Select at least 15 credits from MSB graduate courses, MSB500 level or above) <ul style="list-style-type: none"> - It is mandatory to take at least 1 course from the following courses: MSB500 Advanced Statistics for Management, MSB601 Research Methodology in Business and Technology Management, MSB701 Advanced Econometrics, MSB702 Research Methodologies II, MSB703 Data Analytics for Innovation Management, MSB736 Advanced Quantitative Analysis. ○ Research : at least 9 credits <ul style="list-style-type: none"> - 2 seminar credits are required (International students and general scholarship students are exempt from seminar requirements) 	<p>Strategy</p> <ul style="list-style-type: none"> ○ Elective : at least 30 credits (Select at least 24 credits from MSB graduate courses, MSB500 level or above) <ul style="list-style-type: none"> - It is mandatory to take at least 3 courses from the following courses: MSB500 Advanced Statistics for Management, MSB601 Research Methodology in Business and Technology Management, MSB701 Advanced Econometrics, MSB702 Research Methodologies II, MSB703 Data Analytics for Innovation Management, MSB736 Advanced Quantitative Analysis. ○ Research : at least 30 credits <ul style="list-style-type: none"> - 4 seminar credits are required (International students and general scholarship students are exempt from seminar requirements)
2018~ 2019	<ul style="list-style-type: none"> □ Master's Program (at least 33 credits) <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU <ul style="list-style-type: none"> - CC010 Special Lecture on Leadership/non-credit, this applies to students entering KAIST in 2002 and later; general scholarship students and international students are excluded) - CC020 Ethics and Safety I - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure ○ Mandatory Major : 6 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management - MSB510 Innovation Management and Strategy ○ Elective : at least 15 credits (Select at least 12 credits from MSB graduate courses, MSB500 level or above) ○ Research : at least 9 credits <ul style="list-style-type: none"> - 2 seminar credits are required (International students and general 	<ul style="list-style-type: none"> □ Doctoral Program (at least 66 credits) <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU <ul style="list-style-type: none"> - CC020 Ethics and Safety I(1AU) - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure ○ Mandatory Major : 6 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management - MSB510 Innovation Management and Strategy ○ Elective : at least 27 credits (Select at least 21 credits from MSB graduate courses, MSB500 level or above) <ul style="list-style-type: none"> - It is mandatory to take at least one course from the following courses: <u>MSB601 Research Methodologies I</u>, MSB701 Advanced Econometrics, MSB702 Research Methodologies II. ○ Research : at least 30 credits <ul style="list-style-type: none"> - 4 seminar credits are required (International students and general

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	scholarship students are exempt from seminar requirements)	scholarship students are exempt from seminar requirements)
2015~ 2017	<p>□ Master's Program (at least 33 credits)</p> <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU <ul style="list-style-type: none"> - CC010 Special Lecture on Leadership/ non-credit, this applies to students entering KAIST in 2002 and later; general scholarship students and international students are excluded) - CC020 Ethics and Safety I(1AU) - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure ○ Mandatory Major : 6 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management - MSB510 Innovation Management and Strategy ○ Elective : at least 15 credits (Select at least 12 credits from MSB graduate courses, MSB500 level or above) ○ Research : at least 9 credits <ul style="list-style-type: none"> - 2 seminar credits are required (International students and general scholarship students are exempt from seminar requirements) 	<p>□ Doctoral Program (at least 66 credits)</p> <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU <ul style="list-style-type: none"> - CC020 Ethics and Safety I(1AU) - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure ○ Mandatory Major : 6 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management - MSB510 Innovation Management and Strategy ○ Elective : at least 27 credits (Select at least 21 credits from MSB graduate courses, MSB500 level or above) <ul style="list-style-type: none"> - It is mandatory to take at least one course from the following courses: MSB601 Research Methodologies I, MSB701 Advanced Econometrics, MSB702 Research Methodologies II. ○ Research : at least 30 credits <ul style="list-style-type: none"> - 4 seminar credits are required (International students and general scholarship students are exempt from seminar requirements)
2014	<p>□ Master's Program (at least 33 credits)</p> <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU <ul style="list-style-type: none"> - CC010 Special Lecture on Leadership/ non-credit, this applies to students entering KAIST in 2002 and later; general scholarship students and international students are excluded) - CC020 Ethics and Safety I(1AU) - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure 	<p>□ Doctoral Program (at least 66 credits)</p> <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU <ul style="list-style-type: none"> - CC020 Ethics and Safety I(1AU) - One course (3 credits) from CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC531 Patent Analysis and Invention Disclosure ○ Mandatory Major : 6 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management - MSB510 Innovation Management and Strategy

Admission Year	Master's Program	Doctoral Program (MS-PhD Integrated Degree Program)
	<ul style="list-style-type: none"> ○ Mandatory Major : 6 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management - MSB510 Innovation Management and Strategy ○ Elective : at least 15 credits (Select at least 12 credits from MSB graduate courses, MSB500 level or above) ○ Research : at least 9 credits 	<ul style="list-style-type: none"> ○ Elective : at least 27 credits (Select at least 21 credits from MSB graduate courses, MSB500 level or above) - It is mandatory to take at least one course from the following courses: MSB601 Research Methodologies I, MSB701 Advanced Econometrics, MSB702 Research Methodologies II. ○ Research : at least 30 credits
2013 or before	<ul style="list-style-type: none"> □ Master's Program (at least 33 credits) <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU ○ Mandatory Major : 3 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management ○ Elective : at least 18 credits (Select at least 12 credits from MSB graduate courses, MSB500 level or above) ○ Research : at least 9 credits 	<ul style="list-style-type: none"> □ Doctoral Program (at least 66 credits) <ul style="list-style-type: none"> ○ Mandatory General : 3 credits and 1AU ○ Mandatory Major : 3 credits <ul style="list-style-type: none"> - MSB500 Advanced Statistics for Management ○ Elective : at least 30 credits <ul style="list-style-type: none"> - It is mandatory to take at least one course from the following courses : MSB601 , MSB701, MSB702 ○ Research : at least 30 credits

※ Credits (for general courses and major courses) earned in the Master's Program can be included in the Doctoral Program (except research credits).

※ In the case of MS-PhD integrated students, they must take CC010 Special Lecture on Leadership.

※ Graduate Students must take and complete the three core courses (Principles of Accounting, Financial Management, Marketing).

- Students who have completed core courses above in the undergraduate or the graduate programs, can either get an exemption from completion of the courses or take other courses instead, by getting the approval from the Undergraduate Head Professor beforehand.

- The Exempted core course credits taken in the undergraduate program cannot be recognized as graduate credits.

□ Table of Curriculum for BTM Graduate Program

Classification	Subject No.	Subject Name	Lecture:Lab.: Credit (assignment)	Faculty	Semester	Remark	
Mandatory General Course	CC010	Special Lecture on Leadership	1:0:0		Spring.Fall		
	CC020	Ethics and Safety I	1AU		Spring.Fall		
	CC500	Scientific Writing	3:0:3		Spring.Fall	choose 1	
	CC510	Introduction to Computer Application	2:3:3		Spring.Fall		
	CC511	Probability and Statistics	2:3:3		Spring.Fall		
	CC512	Introduction to Materials and Engineering	3:0:3		Spring.Fall		
	CC513	Engineering Economy and Cost Analysis	3:0:3		Spring.Fall		
	CC522	Introduction to Instruments	2:3:3		Fall		
	CC531	Patent Analysis and Invention Disclosure	3:0:3		Spring.Fall		
Mandatory Major Course	MSB510	Innovation Management and Strategy	3:0:3(6)	Jung JY Kim WJ	Fall		
Elective Course	MSB500	Advanced Statistics for Management	3:0:3(6)	Park MC	Spring		*BAT500
	MSB504	Microeconomics	3:0:3(6)	Kwon YS Chae SC	Fall	*BAT504	
	MSB530	Accounting Principles	3:0:3(6)	Jung YH	Spring	*BAT664	
	MSB535	Corporate Finance Theory	3:0:3(6)	Hang SH	Spring	*BAT676	
	MSB536	Marketing Management	3:0:3(6)	Lee,EH	Fall	*BAT651	
	MSB537	Management Information Systems	3:0:3(6)	Zo,HJ	Spring	*BAT556	
	MSB538	Organization Management	3:0:3(6)	Lee,SJ	Fall	*BAT604	
	MSB542	Management Science	3:0:3(6)	Choi,MK	Fall		
	MSB552	Corporate Strategy and Design Process	3:0:3(6)	Kim,WJ	Fall	*ID510	
	MSB554	Smart Business Application and Development	3:0:3(6)	Roh,JJ	Fall	*CS541	
	MSB556	Future and Technology : New Media Technology and Business Strategies	3:0:3(6)	Jung,JY	Fall	*EE572	
	MSB601	Research Methodologies I	3:0:3(6)	Staff	Fall	*BAT605	
	MSB613	Network Economics	3:0:3(6)	Lee,DH	Spring	*BAT600	
	MSB615	Game Theory with Applications	3:0:3(6)	Kwon,YS	Fall	*BAT511	
	MSB630	Managerial Accounting	3:0:3(6)	Jung,YH	Fall	*BAT665	
	MSB635	Investments Theory	3:0:3(6)	Nam,C,G	Spring	*BAT673	
	MSB636	Marketing research	3:0:3(6)	Staff	Spring		
	MSB638	Business Strategy	3:0:3(6)	Jung,HJ	Spring	*BAT661	
	MSB644	Supply Chain Management	3:0:3(6)	Roh,JJ	Spring	*BAT671	
	MSB650	Information and Telecommunications Management	3:0:3(6)	Park,MC	Fall	*BAT650	
	MSB656	Theory of Information Policy	3:0:3(6)	Staff	Fall	*BAT617	
	MSB701	Advanced Econometrics	3:0:3(6)	Min,HG	Fall	*BAT701	
	MSB702	Research Methodologies II	3:0:3(6)	Nam,CG	Spring	*BAT895	
	MSB704	Advanced Microeconomics Analysis	3:0:3(6)	Kwon,YS	Spring		
	MSB716	Global Financial Markets	3:0:3(6)	Min,HG	Spring		
	MSB736	Advanced Quantitative Marketing	3:0:3(6)	Kim,HJ	Spring		
	MSB813	Telecommunications Economics	3:0:3(6)	Lee,DH	Spring	*BAT602	
	MSB830	Advanced Performances Management	3:0:3(6)	Jung,YH	Fall		
	MSB835	Advanced Corporate Finance	3:0:3(6)	Han,SH	Spring		
	MSB836	Advanced Marketing Research	3:0:3(6)	Lee,EH	Spring		
	MSB837	MIS Doctoral Seminar	3:0:3(6)	Zo,HJ	Spring		
	MSB838	Advanced Organization and Management Theories	3:0:3(6)	Lee,SJ	Fall	*BAT803	
	MSB881	Advanced Special Topics I in Business and Technology Management	3:0:3(6)	Staff	Spring.Fall		
	MSB882	Advanced Special Topics II in Business and Technology Management	2:0:2(4)	Staff	Spring.Fall		
	MSB883	Advanced Special Topics III in Business and Technology Management	1:0:1(2)	Staff	Spring.Fall		
	Research	MSB960	M.S Thesis				
MSB980		Ph.D Thesis					

Classification	Subject No.	Subject Name	Lecture:Lab.: Credit (assignment)	Faculty	Semester	Remark
	MSB965	Individual Study (M.S)				
	MSB985	Individual Study (Ph.D)				
	MSB966	Seminar (M.S)				
	MSB986	Seminar(Ph.D)				

※ Note: * stands for substitutable courses

※ 500 level courses are not opened to undergraduate students without MSB554 (Smart Business Application and Development).

□ Description of Courses for BTM Graduate Program

MSB500 Advanced Statistics for Management

The course emphasizes formulating models and using them for decision-making prediction. Topics include probability theory, sampling, estimation, hypothesis testing, regression analysis, analysis of variance, and some more techniques such as factor analysis, cluster analysis, if time permits. For all the issues, both theoretical and practical aspects through case studies will be emphasized.

MSB504 Microeconomics

Microeconomics is a field of economics that studies consumer and firm behaviors scientifically. Consumers and firms make decisions to accomplish their goals under constraints. More specifically, microeconomics studies the ways to make better decisions (choices) when resources such as budget, time, information, clean water, etc. are limited. This course is composed of three parts: consumer theory, firm theory, and externality. Students will study various topics intuitively rather than mathematically.

MSB510 Innovation Management and Strategy

Management of innovation is defined as the set of activities associated with bringing high technology products to the marketplace. Innovation management strategy aims to integrate management of market, industry, technological, organizational change to improve the competitiveness of firms and effective organization. In doing so, this course will examine on the basis of the dynamic firms capability framework- position in the competitive and national environment, Path for developing and exploiting technological trajectories, Process for strategic integration and learning.

MSB530 Accounting Principles

The objectives of this course are for graduate students to comprehend "accounting procedures" with which accounting information is gathered, processed and presented; to understand contents in companies' financial statements; and to apply to management functions with accounting numbers.

MSB535 Corporate Finance Theory

The objective of this course is to study the basic concepts, theories, and current issues of corporate finance and to introduce the researches in finance. The topics cover the areas of financial management decisions including capital budgeting, capital structure, dividend policy, IPO, M&A, corporate divestitures, valuations and other related issues. This course also covers some topics related to venture capital. This class is organized by lecture with advanced level through textbook and by seminar with classic and recent academic papers on the related topics. Upon a successful completion of this course, students are expected to have knowledge as a financial manager and understand the big picture of researches in finance. The purpose of term paper is to draw big picture of research paper in finance such as selecting topics, reviewing the related previous literature, collecting data, testing empirical analysis, interpreting the results, and making conclusion.

MSB536 Marketing management

This course is concerned with the development, evaluation, and implementation of marketing management in complex environments. The course deals primarily with an in-depth analysis of a variety of concepts, theories, facts, analytical procedures, techniques, and models. The course addresses strategic issues such as:

- What business should we be in?
- What are our long-term objectives?
- What is our sustainable marketing competitive advantage?
- Should we diversify?
- How should marketing resources be allocated?
- What marketing opportunities and threats do we face?
- What are our marketing organizational strengths and weaknesses?
- What are our marketing strategic alternatives?

MSB537 Management Information Systems

This course is designed to provide a clear understanding of the various advanced management, organizational, and ethical issues of IS for master students. Effective management of IT functions and IT resources is becoming even more compelling and significant in light on electronic (Internet) business. To achieve these objectives, a combination of various approaches including class lectures, case discussions, group projects and assignments will be offered.

MSB538 Organization Management

This course will address a variety of issues in Organizational Behavior and Organizational Theory. Thus, subjects to be covered will include motivation theories, individual differences, leadership, organization structure, strategy, inter-organizational relationships, organizational culture and others. It is a seminar class where students are expected to read academic journal articles beforehand and discuss their opinions in the class.

MSB542 Management Science

Main purpose of this course is to provide fundamentals in management science. The course will cover introductory levels of linear programming, network theory, game theory, decision analysis, queueing theory and inventory analysis.

MSB552 Corporate Strategy and Design Process

This course aims to approach the design process from a broader business perspective. Beyond the traditional role of industrial design and designers, this project attempts to include developing business strategy as a design problem. By investigating and analyzing the market, company structure and business model, students engage in managerial decision-making process to develop business strategies.

MSB554 Smart Business Application and Development

The course is intended for graduate students to understand and develop smart business application running on smart phones. It provides a comprehensive guide covering programming technology on Mobile Internet, Mobile Security and Payment, Location based and Context Aware Services, Social Network Services, and Business Model Development Method through Case Study, Value Chain Analysis and Economic Feasibility Study. An application is proposed and developed by students as team consisting of business and engineering areas for the purpose of creating new application services and businesses.

MSB556 Future and Technology : New Media Technology and Business Strategies

The course will essentially provide basis of marriage between social sciences and engineering capabilities of students, hence: 1)Link understanding between future-oriented Business and Technology Strategies in Media and Broadcasting, 3)Emphasize importance of user considerations when identifying and designing disruptive technological solutions for future media society

MSB601 Research Methodologies I

This course provides basic knowledge of academic research for graduate students. This course covers diverse topics associated with academic research, including conceptualizing a research design, literature review, identifying variables, constructing hypotheses, data collection, instrument development, sampling, empirical analysis, etc. At the end of this semester, each student will complete a piece of his/her own international-conference-level paper in his/her field.

MSB613 Network Economics

This course aims to understand basic principles of network economics and study applications of the principles to real economies and business issues. We introduce network concept, structure, and principles including network externalities, excess inertia and excess momentum, positive feedback, path dependent process, and so on. We apply those principles to various economic, business, and policy issues; technology adoption, standardization, spatial pattern, network trade, discrepancy and instability, synchronization, self-organizing, complexity, etc.

MSB615 Game Theory with Applications

You make your decisions sometimes without worrying about the decisions of others, but in many cases the results of your decisions depend on others' decisions. This course is a course in which you learn a systematic and analytic approaches and frameworks for a better strategic decision making in interactive circumstances. In addition, this course fosters students' ability to analyze and handle the complexity involved in strategic decision-making process.

MSB630 Managerial Accounting

This course aims to understand cost flows, costing systems, and the use of cost information in managerial issues; and to get fundamental research ideas, topics, and methodologies regarding managerial accounting area. This course also provide how to apply cost information to practices, management functions, and managerial decision makings with mini cases.

MSB635 Investments Theory

The main purpose of this course is to analyze portfolio theory and the pricing model of securities in the financial markets. In addition to the valuation model such as Capital Asset Pricing Model, Arbitrage Pricing Model, bond valuation model, financial derivatives such as options and futures are introduced. Focussing on information and telecommunications industry, issues related to market efficiency, M&A, venture capital, and IPO are also covered in the class.

MSB636 Marketing research

This course focuses on the generation of primary data to improve decisions. The course helps students determine when research should be conducted and on designing the appropriate means of gathering and interpreting information. The course examines a range of methods of data collection made possible and develops skills in converting data to useful information that will improve marketing efforts. The course uses client-based group projects, extensive assignments, and readings to develop conceptual, analytical and communication skills.

MSB638 Business Strategy

This class try to achieve in-depth understanding of strategic management theory which analyzes market opportunity and organizational competences, and explores or applies diverse strategic alternatives. Special attentions will be paid to emerging fields including digitalization, networking, and convergence as well as conventional fields including innovation, startup, growth, restructuring, and M&A. The class will be organized to develop in-depth academic insights for strategic management by covering major journal papers, articles, and books.

MSB644 Supply Chain Management

The basic theory of supply chain management will be introduced from a knowledge management viewpoint. Traditional supply chain management techniques for on-line and off-line companies will be discussed. Also, various innovative techniques will be studied through cases and academic journal papers.

MSB650 Information and Telecommunications Management

Strategic management issues related to information and telecommunications industry are discussed in this course. Some example issues are regulation, market characteristics, demand forecasting, diversification and vertical integration, strategic alliances, M&A, interconnection, and some current issues for emergine services. All issues are discussed based on the real cases.

MSB656 Theory of Information Policy

This course provides the overview of the governments policies aimed at changing the nation and society by means of informatization. This course is designed to help students understand how the relation between globalization and informatization transform the world and its economic structure. This lecture also aims to help students equip the knowledge and perspective required to be a CEO in the near future. Related studies are political economics, theory of policy, theory of information society, and theory of information industry.

MSB701 Advanced Econometrics

Topics to be studied include specification, estimation, and inference in the context of models that include then extend beyond the standard linear multiple regression framework. After a review of the linear model, we will develop the asymptotic distribution theory necessary for analysis of generalized linear and nonlinear models. We will then turn to instrumental variables, maximum likelihood, GMM, and two step estimation methods. Inference techniques will be extended to include Wald, Lagrange multiplier and likelihood ratio tests. Modelling frameworks will include the linear regression model and extensions to models for panel data, multiple equation models.

MSB702 Research Methodology II

This class try to achieve in-depth understanding of the high level research methodologies which should be essential in writing empirical dissertation paper and conducting various researches in the field of business. The class covers empirical design focussing validities, and multivariate data analyses including ANOVA, Factor Analysis, Regression, Discriminant Analysis, Conjoint Analysis, Multidimensional Scaling, Structural Equation. etc.

MSB704 Advanced Microeconomics Analysis

Advanced Microeconomic Analysis is a course in which students learn the nuts and bolts of the consumer choice theory and production theory. After learning basics, students learn optimization and modeling techniques. This course is developed only for Ph.D. program students and requires students to take at least 500 level microeconomics, calculus and differential equations, and matrix and vector as prerequisites.

MSB716 Global Financial Markets

Activities in financial markets have direct effects on individual's wealth, the behavior of business, and the efficiency of our economy. This course is designed to investigate i) the role of money on business cycle and inflation, ii) the structure of financial system and the foreign exchange market, and iii) conduct of monetary policy and budget deficit. iv) In addition, this course will introduce central concepts of international financial management.

MSB736 Advanced Quantitative Marketing

This course in intended for first year Ph.D. students and M.S students who will eventually pursue a Ph.D degree in quantitative marketing. We will cover topics relating to the analysis of data such as household scanner panel and physician level data (individual) and store data (aggregate). All topics are empirical in nature and very strong background and motivation for quantitative modeling are required. I will also strongly encourage students to conduct interdisciplinary research throughout the course. Once we have covered a topic in class, I will provide readings. There are 2 types of assignments for the class. The first is to implement each of the models discussed using the data I provide. Ph.D. students can use any software package such as R, SAS, Gauss, Matlab etc. as long as no canned routines are used. The other assignment for this class is a final paper-individual. This is intended only for Ph.D students registered for the class. Papers are due at the end of summer. It has to involve some piece of empirical research that uses the quantitative methods discussed in class

MSB813 Telecommunications Economics

This course is designed to understand basic principles of telecommunications industry and study applications of Microeconomics and Industrial Organization to telecommunications industry: market structure, demand structure, interconnection, pricing, competition and regulation, etc. It is also to discuss current policy issues and future of telecommunications industry such as network neutrality, facility and service-based competition, MVNO, bundling service, market foreclosure, DRM, convergence service, telecommunication expenditure, regulation and market growth, etc.

MSB830 Advanced Performances Management

This course is designed for graduate students to understand various issues concerning the enterprise performance management. Students study successful factors for not only implementing performance management systems but also operating them continuously throughout papers and cases.

MSB835 Advanced Corporate Finance

The objective of this course is to study the current and classic theories in corporate finance, and to introduce the researches in corporate finance. The topics cover the areas of financial management decisions including capital budgeting, capital structure, dividend policy, IPO, M&A, corporate divestitures, valuations and other related issues. This class is organized by presentation of classical and recent academic papers on the related

topics. Upon a successful completion of this course, students are expected to understand the big picture of researches in finance. The purpose of term paper is to draw big picture of research paper in finance such as selecting topics, reviewing the related previous literature, collecting data, testing empirical analysis, interpreting the results, and making conclusion.

MSB836 Advanced marketing research

This course consists of supervised study and investigation of specific topics and problems in the field of marketing such as consumer behavior, business to business marketing, structural equation modeling, hi-tech marketing, and marketing models. In addition, students examine the philosophy, concepts and methods of marketing research design. The focus of seminar is on the application of advanced research methodology to marketing issues.

MSB837 MIS Doctoral Seminar

The focus of this seminar is to engage in a critical examination and gain valuable understanding of a number of eclectic theories (in organizational areas) that often form the foundation for conducting contemporary/advanced research in Information Systems - IS. This seminar is designed to acquaint you with the theories used to examine phenomena related to the introduction, adoption, use, effects, and exploitation of information systems in organizations.

MSB838 Advanced Organization and Management Theories

This course analyzes the structural and behavioral aspects of organizations. Macro issues covers organizational life cycle, organizational communication, organizational culture, and planned change, while micro issues include group dynamics, management ethics, power, motivation, and decision making. Emphasis will be placed on understanding the conceptual and methodological strengths and weaknesses of the perspectives presented. It is a seminar class where students are expected to read academic journal articles beforehand and discuss their opinions in the class.

MSB881 Advanced Special Topics I in Business and Technology Management

This course provides studies of recent academic research papers and the research methodology on each industry and business areas of technology management to graduate students of Business and Technology Management major. This course is offered to cover additional business and technology management area which is not covered by regular courses. It will be opened flexibly.

MSB882 Advanced Special Topics II in Business and Technology Management

This course provides studies of recent academic research papers and the research methodology on specific industry and business areas of technology management to graduate students of Business and Technology Management major. This course is offered to cover additional business and technology management area which is not covered by regular courses. It will be opened flexibly.

MSB883 Advanced Special Topics III in Business and Technology Management

This course provides selected studies of recent academic research papers and the research methodology on specific industry and business areas of technology management to graduate students of Business and Technology Management major. This course is offered to cover additional business and technology management area which is not covered by regular courses. It will be opened flexibly.

MSB960 MS Thesis Research

MSB966 Seminar (MS)

MSB980 Ph.D Thesis Research

MSB986 Seminar (Ph.D)