

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
1	1	지교	0349	경영학원론	PRINCIPLE OF MANAGEMENT	3.0	3.0	경영-경영	Business Administration & Management Information System	Mon04-06 1030-1200(경영 201), Wed01-03 0900-1030(경영 201)	Kane	English	The basic concepts of management principles in the current business environment, the fundamentals of modern business administration are examined from the viewpoint of the cultivation of management ability and the nature of business administration, management planning, management control, leadership, the basic principles of organizing, profit control system, and business units are major topics of the course.	Theory	
2	2	전선	3798	기업영어1	BUSINESS ENGLISH 1	3.0	3.0	경영정보학	Management Information System	Tue01-06 0900-1200(경영 207)	최은주	ENGLISH	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
3	2	전선	3968	기업영어1	BUSINESS ENGLISH 1	3.0	3.0	경영정보학	Management Information System	Tue09-14 1300-1600(경영 207)	최은주	ENGLISH	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
4	2	전필	2162	재무관리	FINANCIAL MANAGEMENT	3.0	3.0	경영정보학	Management Information System	Tue07-09 1200-1330(경영 206), Thur10-12 1330-1500(경영 206)	최병욱	English	Financial decision-making in the corporation and analytical techniques for solving financial problems are examined in this course. Financial decisions such as investing in fixed assets, obtaining debt and equity funds, and determining the proper amount of working capital are considered. Problems and cases are used to demonstrate the applicability of the analytical techniques.	Theory	
5	4	전필	2163	전략경영론	STRATEGIC MANAGEMENT	3.0	3.0	경영정보학	Management Information System	Tue04-06 1030-1200(경영 204), Thur01-03 0900-1030(경영 204)	김광수	English	Strategic Management aims to help students to have an eye on the choice of firms' strategic direction and the general management of firms under high environmental turbulence. More specifically, Strategic Management is designed to educate students in the strategic management framework of environmental analysis, strategy formulation, strategy implementation, and strategy evaluation/control.	Theory	
6	3	전선	3801	ERP	ERP	3.0	3.0	경영정보학	Management Information System	Tue10-12 1330-1500(경영 102), Thur07-09 1200-1330(경영 102)	이미영	English	The conception and function, and the examples of Enterprise Resource Planning (ERP) will be examined. After the study, students will have practical training of ERP.	Theory	
7	4	전선	3913	고급회계	ADVANCED ACCOUNTING	3.0	3.0	경영학	Business Administration	Mon04-06 1030-1200(경영 305-1), Wed01-03 0900-1030(경영 305-1)	오준환	English	This course first covers some topics that was not dealt within the intermediate accounting course previously offered. It also covers certain complicated accounting topics including foreign currency/ foreign financial statements accounting for business combination, and accounting for derivatives.	Theory	
8	2	전선	3790	기업영어1	BUSINESS ENGLISH 1	3.0	3.0	경영학	Business Administration	Mon01-06 0900-1200(경영 105)	Bettina	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
9	2	전선	3918	기업영어1	BUSINESS ENGLISH 1	3.0	3.0	경영학	Business Administration	Tue01-06 0900-1200(경영 105)	Bettina	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
10	2	전선	3919	기업영어1	BUSINESS ENGLISH 1	3.0	3.0	경영학	Business Administration	Wed01-06 0900-1200(경영 105)	Bettina	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
11	2	전선	3920	기업영어1	BUSINESS ENGLISH 1	3.0	3.0	경영학	Business Administration	Thur01-06 0900-1200(경영 105)	Bettina	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
12	4	전선	3929	유통전략론	DISTRIBUTION CHANNEL STRATEGY	3.0	3.0	경영학	Business Administration	Tue10-12 1330-1500(경영 206), Thur07-09 1200-1330(경영 206)	박진용	English	Efficient distribution channels are designed on behalf of both customers and firms. Channels strategies are reviewed to cope with the change of channel environment.	Theory	
13	3	전선	3796	투자론	PRINCIPLES OF INVESTMENT	3.0	3.0	경영학	Business Administration	Mon04-06 1030-1200(경영 205), Wed01-03 0900-1030(경영 205)	장국현	English	Understanding of security investment, investment including utility theory, capital market, the effects of diversification, modern portfolio theory, option pricing theory, futures trade, and security analysis are main topics in this course. Applications of the theories and techniques will be stressed.	Theory	

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14	2	지교	0348	마케팅	MARKETING	3.0	3.0	경영학, 경영정보학, 기술경영학과	Business Administration, Management Information System, Management of Technology	Mon10-12 1330-1500(경영 201), Wed07-09 1200-1330(경영 201)	Kane	English	The process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services is discussed. The Main topics are product, price, place, promotion, marketing planning, organizing, controlling etc.	Theory	
15	3	전선	3317	경제성장과발전	ECONOMIC GROWTH & DEVELOPMENT	3.0	3.0	경제학	Economics	Tue13-16 1500-1700(상허관 224), Fri07-08 1200-1300(상허관 224)	김진영	English	Persistent income increases and job creations warrant economic growth and development. This course provides an introduction to the elements leading to economic growth and development. Various kinds of capital (physical, human and social overhead capital), are analyzed in the context of economic growth.	Theory	
16	4	전선	3321	국제금융시장론	INTERNATIONAL FINANCIAL MARKETS	3.0	3.0	경제학	Economics	Tue01-03 0900-1030(상허관 107), Thur04-06 1030-1200(상허관 107)	지인엽	English	"This course examines the structure of foreign exchange markets, currency futures, currency options, and currency swaps."	Theory	
17	4	전선	3333	파생금융상품의이해	FINANCIAL DERIVATIVES	3.0	3.0	경제학	Economics	Tue07-09 1200-1330(상허관 224), Thur10-12 1330-1500(상허관 224)	배진호	English	This course presents financial derivatives, including futures and options, from the broad perspective. It provides a survey of both practical and conceptual interest, from the mechanics of trading of financial derivatives to the theoretical pricing of financial derivatives. Students should come away with an understanding of the behavior of financial derivative markets, and how to use them in making business decisions.	Theory	
18	2	전선	3331	PRINCIPLE OF MICROECONOMICS	PRINCIPLE OF MICROECONOMICS	3.0	3.0	경제학	Economics	Tue04-06 1030-1200(상허관 107), Thur01-03 0900-1030(상허관 107)	지인엽	English	"This course introduces microeconomic concepts and analysis. Topics include supply and demand analysis, theories of the firm and individual behavior, competition and monopoly, and welfare economics. Basic theories are problems of current economic policy."	Theory	
19	3	전선	3322	국제무역론	INTERNATIONAL TRADE THEORY	3.0	3.0	경제학, 국제비즈니스	International Business, Economics	Mon01-03 0900-1030(상허관 224), Wed04-06 1030-1200(상허관 224)	이흥구	English	This course introduces the pure theory of international trade covering classical theory of comparative advantage and its modern counterpart, theory of commercial policy, and issues of trade economic development.	Theory	
20	3	전선	3738	경제지리학및실습	BORANY FOR RESOURCES	3.0	4.0	공통사회, 지리학	Geography	Mon09-12 1300-1500(이 B105), Wed05-08 1100-1300(이 B105)	김숙진	English	Discussion on location of economic activity; models and theories of economic geography; case studies of industries and services at global, national, regional, and local levels; spatial patterns and characteristics of international trade and foreign direct investment; Formation of global world economy systems throughout globalization and globality.	Theory+ Practice	
21	3	전선	4188	이러닝의이해와 적용	UNDERSTANDING E-LEARNING AND ITS APPLICATIONS	3.0	3.0	교육공학과	Educational Technology	Mon09-14 1300-1600(사119)	이효자	English	The course reviews critical current issues related to e-Learning in the fields of school and corporate education. It will provide experience of developing practical e-Learning courses.	Theory	
22	2	전선	4185	해외교육현장탐구	EXPLORATION CLASSROOM ACTIVITIES IN FOREIGN COUNTRIES	3.0	3.0	교육공학과	Educational Technology	Thur07-12 1200-1500(사 327/328)	이효자	English	Course explores creative and innovative class activities on teaching-learning methods in foreign countries.	Theory	
23	2	전선	3334	계량분석	ECONOMETRIC ANALYSIS	3.0	3.0	국제무역학	International Trade	Fri13-18 1500-1800(상허관 103)	최필선	English	Exposes students to various mathematical and statistical techniques that will help students equip themselves with necessary skills for theoretical and empirical analysis of management and economics.	Theory	
24	2	전선	3335	국제경영	INTERNATIONAL MANAGEMENT	3.0	3.0	국제무역학	International Trade	Tue01-03 0900-1030(상허관 222), Thur04-06 1030-1200(상허관 222)	황해두	English	Provides an analytical approach to understanding global logistics of goods and services, movement of productive factors and strategic management at the level of multinational and international firms.	Theory	
25	2	전선	4004	국제경영	INTERNATIONAL MANAGEMENT	3.0	3.0	국제무역학	International Trade	Tue04-06(상허관 218), Thur01-03(상허관218)	Prion	English	Provides an analytical approach to understanding global logistics of goods and services, movement of productive factors and strategic management at the level of multinational and international firms.	Theory	

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26	2	전선	4006	국제마케팅	INTERNATIONAL MARKETING	3.0	3.0	국제무역학	International Trade	Tue10-12(상허관 218), Thur07-09(상허관218)	Prion	English	Induces students to deepen their knowledge on the characteristic features of international marketing, including the development of the discipline and the emergence of multinational corporations.	Theory	
27	3	전선	3340	무역보험론	MARINE AND EXPORT INSURANCE	3.0	3.0	국제무역학	International Trade	Tue10-12 1330-1500(상허관 220), Thur07-09 1200-1330(상허관 220)	장동한	English	Enables students to understand the functions of insurance as they arise in various forms of international commercial activities, with particular emphasis on marine insurance which still plays a dominant role in international trade.	Theory	
28	2	전선	3342	미시경제학	MICROECONOMICS	3.0	3.0	국제무역학	International Trade	Mon04-06 1030-1200(상허관 217), Wed01-03 0900-1030(상허관 217)	Ledesma	English	Introduce students to basic concepts of microeconomic theory.	Theory	
29	2	전선	4015	비즈니스영어	BUSINESS ENGLISH	3.0	3.0	국제무역학	International Trade	Fri01-06 0900-1200(상허관 220)	박은옥	English	Teaches students English speaking and writing skills that they may need in various contexts of international commerce.	Theory	
30	4	전선	3347	통상정책론	INTERNATIONAL TRADE POLICY	3.0	3.0	국제무역학	International Trade	Mon04-06 1030-1200(상허관 220), Wed01-03 0900-1030(상허관 220)	이홍구	English	Teaches students how to apply game theory and bargaining theory to the studies of international commercial negotiations and trade policy determination.	Theory	
31	4	전선	3346	INTERNATIONAL COOPERATION	INTERNATIONAL COOPERATION	3.0	3.0	국제무역학	International Trade	Mon01-03 0900-1030(상허관 217), Wed04-06 1030-1200(상허관 217)	Ledesma	English	Is designed to broaden the students' practical knowledge on international economic cooperations among private companies and among governmental institutions.	Theory	
32	4	전필	2046	세계경제의주요현안	CONTEMPORARY ISSUES IN THE GLOBAL ECONOMY	3.0	3.0	국제비즈니스	International Business	Mon03-08 1000-1300(상허관 223)	데니스	English	This is an advanced course that provides an in-depth understanding of cutting-edge issues in the international business area. Students are required to give a presentation on these issues, which are followed by free discussions and critical reviews.	Theory	
33	3	전선	3788	관리회계	MANAGERIAL ACCOUNTING	3.0	3.0	국제비즈니스, 경영학	International Business, Business Administration	Mon04-06 1030-1200(경영 207), Wed01-03 0900-1030(경영 207)	신현걸	English	Use of accounting data in the internal management planning and control process. Accounting analysis that supports decisions about resource allocation and performances evaluation.	Theory	
34	3	전선	3791	마케팅조사론	MARKETING RESEARCH	3.0	3.0	국제비즈니스, 경영학	International Business, Business Administration	Tue01-03 0900-1030(경영 203), Thur04-06 1030-1200(경영 203)	정현수	ENGLISH	The function which links the consumer, customer, and public to the marketer through information is analyzed. The main topics are the definition of problems, research design, questionnaire, research technique etc.	Theory	
35	2	전필	2187	재무관리	FINANCIAL MANAGEMENT	3.0	3.0	국제비즈니스, 경영학	International Business, Business Administration	Mon04-06 1030-1200(경영 204), Wed01-03 0900-1030(경영 204)	오세경	English	Financial decision-making in the corporation and analytical techniques for solving financial problems are examined in this course. Financial decisions such as investing in fixed assets, obtaining debt and equity funds, and determining the proper amount of working capital are considered. Problems and cases are used to demonstrate the applicability of the analytical techniques.	Theory	
36	3	전선	3944	고급영어회화	ADVANCED ENGLISH CONVERSATION	3.0	3.0	국제비즈니스, 영어영문	International Business, English Language & Literature	Mon07-09 1200-1330(산학 211), Wed10-12 1330-1500(산학 211)	Ryan	English	This course is designed to provide students with opportunities to practice more advanced communication skills in English.	Theory	
37	3	전선	3945	고급영어회화	ADVANCED ENGLISH CONVERSATION	3.0	3.0	국제비즈니스, 영어영문	International Business, English Language & Literature	Tue07-09 1200-1330(산학 211), Thur10-12 1330-1500(산학 211)	Ryan	English	This course is designed to provide students with opportunities to practice more advanced communication skills in English.	Theory	
38	3	전선	3946	고급영어회화	ADVANCED ENGLISH CONVERSATION	3.0	3.0	국제비즈니스, 영어영문	International Business, English Language & Literature	Mon10-12 1330-1500(산학 211), Wed07-09 1200-1330(산학 211)	Ryan	English	This course is designed to provide students with opportunities to practice more advanced communication skills in English.	Theory	

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39	4	전선	3966	영어번역	ENGLISH TRANSLATION	3.0	3.0	국제비즈니스, 영어영문	International Business, English Language & Literature	Tue01-03 0900-1030(문306), Thur04-06 1030-1200(문306)	임인재	ENglish	Students are accustomed to theories and principles of translation, and they practice various skills of English translation.	Theory	
40	2	전선	3950	영어작문연습	PRACTICE IN ENGLISH COMPOSITION	3.0	3.0	국제비즈니스, 영어영문	International Business, English Language & Literature	Mon01-03 0900-1030(산학211), Wed04-06 1030-1200(산학211)	Grasse	English	Students in this course understand the fundamentals of English composition with special attention to various styles of English paragraphs and with special emphasis on the actual writing of English paragraphs and essays.	Theory	
41	2	전선	3951	영어작문연습	PRACTICE IN ENGLISH COMPOSITION	3.0	3.0	국제비즈니스, 영어영문	International Business, English Language & Literature	Mon04-06 1030-1200(산학211), Wed01-03 0900-1030(산학211)	Grasse	English	Students in this course understand the fundamentals of English composition with special attention to various styles of English paragraphs and with special emphasis on the actual writing of English paragraphs and essays.	Theory	
42	2	전선	3055	중국어실습1	CHINESE PRACTICE I	3.0	3.0	국제비즈니스, 중어중문	International Business, Chinese Language & Literature	Fri07-12 1200-1500(문212)	염족균	Chinese	Practice with audio-visual materials, various publications, and broadcasts. Development of speaking and listening skills of Chinese.	Theory	
43	2	전선	3700	중국어회화1	CHINESE SPEECH 1	3.0	3.0	국제비즈니스, 중어중문	International Business, Chinese Language & Literature	Fri13-18 1500-1800(문306)	염족균	Chinese	Practice on elementary Chinese language, especially on developing listening and conversational ability.	Theory	
44	3	전선	3062	중국어회화3	CHINESE SPEECH 3	3.0	3.0	국제비즈니스, 중어중문	International Business, Chinese Language & Literature	Mon07-09 1200-1330(문305), Wed10-12 1330-1500(문305)	Liu Jie	Chinese	This is a continuation of the elementary course of Chinese speech 2. It is designed to enhance oral proficiency in Chinese at various situations. It is practice with the diverse vocabulary and expressions of Mandarin Chinese conversation.	Theory	
45	3	전선	3699	중국어회화3	CHINESE SPEECH 3	3.0	3.0	국제비즈니스, 중어중문	International Business, Chinese Language & Literature	Tue07-09 1200-1330(문305), Thur10-12 1330-1500(문305)	Liu Jie	Chinese	This is a continuation of the elementary course of Chinese speech 2. It is designed to enhance oral proficiency in Chinese at various situations. It is practice with the diverse vocabulary and expressions of Mandarin Chinese conversation.	Theory	
46	1	지교	0228	영어의세계	STORY OF ENGLISH	3.0	3.0	국제어문학	Foreign Languages	Tue04-06 1030-1200(문213), Thur01-03 0900-1030(문213)	임인재	English	This course provides an overview of English as a global language from a socio-cultural perspective. Students will study brief history and current role of English in an international society as well as the regional, social, and national variations of English around the world.	Theory	
47	2	지교	0416	공학수학및연습1	ADVANCED ENGINEERING MATHEMATICS 1	3.0	4.0	기계공	Mechanical Engineering	Mon07-10 1200-1400(공B554), Tue14-17 1530-1730(공B554)	Chakrabarty	English	Mathematical background necessary to study mechanical engineering. Basic differential equation, ordinary linear differential equation, Laplace transform, power series solution, vectors, matrices, and eigenvalue problems.	Theory	
48	3	전선	3697	기계요소설계	DESIGN OF MACHINE ELEMENTS	3.0	4.0	기계공	Mechanical Engineering	Tue19-20 1815-1945(공1102), Thur09-12 1300-1500(공B554)	김창완	English	Improvement of the design ability for coupling, clutch, shaft, and screw by applying fundamental laws and mechanical knowledge.	Theory+ Practice	Mechanical engineering majors only
49	3	전선	3157	유체역학	FLUID MECHANICS	3.0	3.0	기계공	Mechanical Engineering	Mon01-03 0900-1030(공A303), Wed04-06 1030-1200(공A406)	나양	English	An introduction to Fluid Mechanics: the properties of fluid, and three methods for the analysis of the fundamental conservation law, including the integral approach for the control volume, the differential approach for the infinitesimal volume, and dimensional analysis for experimental data.	Theory	
50	3	전선	3162	전산수치해석	NUMERICAL ANALYSIS	3.0	3.0	기계공	Mechanical Engineering	Mon04-06 1030-1200(공A303), Wed01-03 0900-1030(공A406)	나양	English	Numerical methods from an end-user's point of view: interpolation and splines, integration, numerical solution of ordinary differential equations: explicit and implicit method, multi-step methods, boundary value problems, eigenvalue problems. Emphasis on analysis of numerical methods for accuracy, convergence, stability.	Theory	
51	4	전선	3165	종합설계	CIVIL ENGINEERING CAPSTONE DESGIN	2.0	3.0	기계공	Mechanical Engineering	Mon17-18 1700-1800(공A406), Wed00 0800-0900(공A406), Fri00 0800-0900(공A406)	나양	English	Performing the full procedures of design and manufacturing for some selective topics. Capstone and integrated design project necessary for engineering degree.	Theory+ Practice	

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52	4	전선	3323	종합설계	CIVIL ENGINEERING CAPSTONE DESIGN	2.0	3.0	기계공	Mechanical Engineering	Mon17-18 1700-1800(공 B552), Wed00 0800-0900(공 B552), Fri00 0800-0900(공 B552)	이병욱	English	Performing the full procedures of design and manufacturing for some selective topics. Capstone and integrated design project necessary for engineering degree.	Theory+ Practice	
53	4	전선	3168	CIM시스템	COMPUTER-INTEGRATED MANUFACTURING SYSTEM	3.0	4.0	기계공, 디스플레이공학 연계	Mechanical Engineering (Related to Display Engineering)	Tue01-04 0900-1100(공 B554), Thu03-06 1000-1200(공 A406)	신기현	English	System components as actuators, sensors, controllers, and networks, Analysis and design techniques for the CIM systems: tasking, scheduling, network programming, real-time control, PLC programming, control logic design, modeling and control of servo motors. Experiments at the factory of the Continuous Process Research Center. Prerequisite courses: System Design.	Theory+ Practice	
54	4	전선	3506	조형도자3	SCULPTURE STUDIO 3	3.0	4.0	도자공예	Ceramics	Tue11-18 1400-1800(공예관 세미나실)	서동희	English	Students explore and develop their own personal sculptural direction using clay in this class. The end goal is to exhibit the work created in the Senior Exhibition. This class allows focused time for each student to develop ideas and create work which is their own. The focus of the work created in this class is sculptural.	Experiment+ Practice	
55	3	전선	3386	동물발생학	ANIMAL DEVELOPMENTAL BIOLOGY	3.0	3.0	동생공	Animal Biotechnology	Tue03-06 1000-1200(동 320), Thu09-10 1300-1400(동320)	Thuan	English	Basic course to introduce the mechanism of fertilization, early embryo development and lecture about development and differentiation of gonads, sexual glands, neural-endocrine system.	Theory	
56	2	전선	3397	해부생리학및실습	ANATOMY PHYSIOLOGY & PRACTICE	3.0	4.0	동생공	Animal Biotechnology	Mon13-16 1500-1700(동 301), Tue15-18 1600-1800(동301)	Gupta	English	Introduction to basic anatomy and physiology of animal.	Theory+ Practice	
57	1	지교	0038	유기화학	ORGANIC CHEMISTRY	3.0	3.0	동생부	Animal Life Science	Mon13-14 1500-1600 (동711), Wed03-06 1000-1200(동711)	오재욱	English	Fibers, dyes, finishing agents, auxiliaries are organic materials. Synthetic method, chemical structure, reactivity of organic compounds such as hydrocarbons, alcohols, amines, carboxylates are taught to consolidate the foundation for textile chemistry.	Theory	
58	1	지교	0359	유기화학	ORGANIC CHEMISTRY	3.0	3.0	동생부	Animal Life Science	Mon15-16 1600-1700(동 711), Wed09-12 1300-1500(동711)	오재욱	English	Fibers, dyes, finishing agents, auxiliaries are organic materials. Synthetic method, chemical structure, reactivity of organic compounds such as hydrocarbons, alcohols, amines, carboxylates are taught to consolidate the foundation for textile chemistry.	Theory	
59	3	전선	3402	낙농학	DAIRY HERD MANAGEMENT	3.0	3.0	동생환	Animal Science & Environment	Mon13-16 1500-1700(동 303), Wed15-16 1600-1700(동303)	박근규	English	To teach the improved methods of applying the basic principles of genetics, breeding, nutrition, feeding and handling of dairy cattle, and managing the dairy farm business.	Theory	
60	3	전선	3413	미생물학	MICROBIOLOGY	3.0	3.0	동생환	Animal Science & Environment	Mon04-06 1030-1200(동 303), Fri04-06 1030-1200(동303)	조재순	English	This course will cover techniques about isolation and characterization of microorganism, structure and metabolism of microorganism, genetics, relation to environment and human.	Theory	
61	3	전선	3415	식품과학	FOOD SCIENCE & TECHNOLOGY	3.0	3.0	동생환	Animal Science & Environment	Mon09-12 1300-1500(동 303), Fri01-02 0900-1000(동303)	민상기	English	The principal goals of Food Science & Technology are to determine the thermophysical and rheological properties of a range of food systems and food ingredients; to understand fundamental and applied aspects of meat, milk, grain, vegetable and crop storage and drying; process control of food processing operations; and develop computer models of food processing unit operations and of quality changes during processing.	Theory	
62	2	전선	3408	응용분자생물학및실형	APPLIED MOLECULAR BIOLOGY	3.0	4.0	동생환	Animal Science & Environment	Tue03-06 1000-1200(동 304), Thu03-06 1000-1200(동304)	조재순	English	Introduction of basic theory with recent information for the application of molecular biology and its fundamental experiment.	Theory+ Practice	
63	3	전선	3016	문화원형과문화콘텐츠	CULTURAL ARCHETYPES AND CULTURE CONTENTS	3.0	3.0	문화콘텐츠	Culture Contents	Fri07-12 1200-1500(문306)	Nguyen T. Nam	English	This course is designed to find ways and methods to make cultural archetypes a subject of study and to devise new ideas and methods for this enterprise.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
64	3	전선	3013	문화트렌드와테크놀로지	CULTURE TREND AND TECHNOLOGY	3.0	3.0	문화콘텐츠	Culture Contents	Mon01-03 0900-1030(문304), Mon10-12 1330-1500(문304)	Nguyen T. Nam	English	This course is designed to develop an understanding of Trend "culture technology" to study the past, present and future of culture technology, and to explore creative and productive ways to unite cultural arts and technology.	Theory	
65	2	전필	2150	고전역학개론및연습	CLASSICAL MECHANICS	3.0	4.0	물리학	Physics	Tue05-08 1100-1300(이B101), Thur09-12 1300-1500(이B103)	오선근	English	Newtonian mechanics, motion of a particle in one, two, and three dimensions, oscillations, rigid-body dynamics, and central force motion.	Theory+ Practice	
66	2	지교	0128	물리수학기초	BASIC MATHEMATICS FOR PHYSICISTS	3.0	3.0	물리학	Physics	Thur13-15 1500-1630(이B103), Fri05-07 1100-1230(이B101)	오선근	English	Lectures on essential mathematics required for entering physics majors will be given on an elementary level. The subjects include differential and integral calculus of functions of several variables, vector calculus, and ordinary differential equations, and complex functions.	Theory	
67	3	전선	3703	수리물리학2	MATHEMATICAL PHYSICS 2	3.0	3.0	물리학	Physics	Mon01-03 0900-1030(이B103), Fri04-06 1030-1200(이B103)	윤종혁	English	Homogeneous and nonhomogeneous differential equations. Sturm-Liouville problems. Special functions such as Gamma functions, Bessel functions, and Legendre functions. S Fourier analysis and applications. Integral equations. Calculus of variations.	Theory	
68	4	전선	3704	양자물리학특론및연습	ADVANCED QUANTUM PHYSICS	3.0	4.0	물리학	Physics	Mon10-13 1330-1530(이B103), Tue01-04 0900-1100(이B103)	이상욱	English	Angular momentum quantum numbers and their addition using Clebsch-Gorden coefficients are introduced. Interaction of a electron with electromagnetic fields is explained quantum mechanically. Time-independent perturbation theory and its application to the helium atom and scattering processes are discussed. Prerequisite: Introduction to Quantum Mechanics.	Theory+ Practice	
69	4	전선	3705	열및통계물리학2	THERMAL AND STATISTICAL PHYSICS II	3.0	3.0	물리학	Physics	Mon14-16 1530-1700(이B103), Wed07-09 1200-1330(이B103)	여준현	English	Application of statistical methods to phase transition in gas-liquid boundary and magnetic ordering systems. Development of Renormalization Group analysis in the presence of interactions. Quantum statistics: Bose-Einstein, Fermi-Dirac statistics, Basic kinetic theory, Elementary nonequilibrium statistical mechanics.	Theory	
70	3	전선	3225	면역학	IMMUNOLOGY	3.0	3.0	미생물공학	Microbial Engineering	Tue09-14 1300-1600(공A402)	손혁진	English	The lecture describes the mechanisms of humoral and cellular immunological responses, antigen-antibody interactions, immunological systems and antibody structures.	Theory	
71	4	전선	3228	생물분리공정공학	BIOSEPARATION PROCESS ENGINEERING	3.0	3.0	미생물공학	Microbial Engineering	Tue14-16 1530-1700(공B551), Wed10-12 1330-1500(공B551)	김형주	English	The lecture describes the culture of recombinant microorganism and process design for the protein separation and purification.	Theory	
72	2	전필	2023	생화학1및실험	BIOCHEMISTRY 1 & LAB.	3.0	4.0	미생물공학	Microbial Engineering	Mon05-08 1100-1300(공A402), Mon13-16 1500-1700(공B361)	이상현	English	The lecture describes the biological phenomena in a molecular level and biological functions on proteins, carbohydrates and lipids, and also discusses in terms of their chemical structures and physiological roles in the cell.	Theory+ Practice	
73	4	전선	3229	화장품생물소재학	COSMETIC BIOMATERIALS	3.0	3.0	미생물공학	Microbial Engineering	Mon04-06 1030-1200(공B551), Wed01-03 0900-1030(공B551)	최태부	English	Various cosmetic law materials for the preparation of cosmetic products will be studied focusing on the recently developed biomaterials.	Theory	
74	4	전선	3762	국제법사례연구	International LawSeminar	3.0	3.0	법학과	Law	Tue04-06 1030-1200(법316), Thur01-03 0900-1030(법316)	조시현	English	This course intends to cultivate the real-problem-solving ability by examining the real application of international law theories and cases.	Theory	
75	4	전선	3763	금융법	Banking Law	3.0	3.0	법학과	Law	Mon10-12 1330-1500(법316), Wed07-09 1200-1330(법316)	Kana Morimura	English	This course deals with the basis legal principles on financial regulation laws such as banking law, financial holding company law and deposit insurance law as well as financial transactions laws including international financial transactions laws such international borrowings, issuance of international securities and project finance related laws.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
76	3	전선	3784	산업재산권법	Industrial Intellectual Property Law	3.0	3.0	법학과	Law	Mon05-06 1100-1200(법317), Wed03-06 1000-1200(법317)	정연덕	English	Students would learn general principal of industrial intellectual property law. It includes patent, trademark and industrial design.	Theory	
77	4	전선	3305	건설관리론	CONSTRUCTION MANAGEMENT	3.0	3.0	부동산학과	Real Estate Science	Mon07-09 1200-1330(상허관316), Wed10-12 1330-1500(상허관316)	이상엽	English	This course provides an overview of construction engineering and management. It starts with a brief introduction to construction industry and then focuses in specific aspects of project delivery methods project bidding, construction contract, project cycle, project funding, cash flow concepts, company legal and management structure, and the issues on the labor, cost and productivity.	Theory	
78	2	전필	2043	부동산계량분석론	QUANTITATIVE ANALYSIS IN REAL ESTATE	3.0	3.0	부동산학과	Real Estate Science	Mon07-09 1200-1330(상허관317), Wed10-12 1330-1500(상허관317)	신승우	English	Development of quantitative skills for real estate analysis. Subjects include preliminary data analysis, hypothesis testing, statistical estimations and forecasting.	Theory	
79	2	전필	2243	부동산계량분석론	QUANTITATIVE ANALYSIS IN REAL ESTATE	3.0	3.0	부동산학과	Real Estate Science	Mon10-12 1330-1500(상허관317), Wed07-09 1200-1330(상허관317)	신승우	English	Development of quantitative skills for real estate analysis. Subjects include preliminary data analysis, hypothesis testing, statistical estimations and forecasting.	Theory	
80	3	전선	3313	입지론	LOCATION	3.0	3.0	부동산학과	Real Estate Science	Mon04-06 1030-1200(상허관320), Wed01-03 0900-1030(상허관320)	심교연	English	Theories of human settlement systems, industrial location, and the spatial development of cities on micro and macro level.	Theory	
81	3	전선	3484	고급생화학	ADVANCED BIOCHEMISTRY	3.0	3.0	분자생명공학	Molecular Biotechnology	Mon07-09 1200-1330(생455), Wed04-06 1030-1200(생456)	김광표	English	To express functions, biological systems use proteins. Proteomics 1 includes basic theory and principles about proteins.	Theory	
82	2	전선	3479	미생물학	MICROBIOLOGY	3.0	3.0	분자생명공학	Molecular Biotechnology	Tue13-16 1500-1700(생151), Fri07-08 1200-1300(생151)	천세철	English	This course will cover techniques about isolation and characterization of microorganism, structure and metabolism of microorganism, genetics, relation to environment and human.	Theory	
83	3	전선	3474	분자유전학	MOLECULAR GENETICS	3.0	3.0	분자생명공학	Molecular Biotechnology	Mon04-06 1030-1200(생151), Wed01-03 0900-1030(생151)	유재웅	English	This course is to elucidate the genetic phenomena at the molecular level. 1) basic developmental process in animal and plant. 2) How evolution proceeds at the molecular level. 3) What are the molecular genetic mechanisms of human disease. 4) Basic quantitative genetics and population genetics	Theory	
84	4	전선	3480	세미나1	SEMINAR 1	3.0	3.0	분자생명공학	Molecular Biotechnology	Wed13-16 1500-1700(생252), Fri05-06 1100-1200(생252)	김두환	English	The course consisted of recent research and industrial trends related to life and genetic engineering. Students are asked to present and discuss on special topics regarding on future biotechnology as an individual or team.	Theory	
85	3	전선	3089	유럽현대사	CONTEMPORARY HISTORY OF EUROPE	3.0	3.0	사학	History	Fri07-12 1200-1500(문308)	이철용	English	Current European History from World War II to the End of 20th Century. Survey of European Culture, Politics, Society and finally Unification of Europe.	Theory	
86	2	전선	3380	동양사입문	A GUIDE TO THE ORIENTAL HISTORY	3.0	3.0	사학, 공통사회	History	Mon07-09 1200-1330(문214), Thu13-15 1500-1630(문214)	김지형	English	Introduction to History of East Asia Reviewing of the political, economic, social, and cultural aspects of East Asian history, such as Ancient China(-900), Early Modern China(900-1800), Revolutionary China (1800-present), and Japanese History; understanding of East Asian history in a global context and Korean history from a broad perspective.	Theory	
87	2	전선	4025	한국사입문	INTRODUCTION TO KOREAN HISTORY	3.0	3.0	사학, 공통사회	History	Tue01-06 0900-1200(문308)	이현숙	English	Introduction to Korean History Basic knowledge and concepts in Korean history; important issues in each historical period, various methodologies and approaches, division of periods.	Theory	
88	3	전선	4014	한국생활사	HISTORY OF KOREAN LIFE	3.0	3.0	사학, 문화콘텐츠	History	Tue16-18 1630-1800(문214), Fri01-03 0900-1030(문214)	김지형	English	History of Korean Life This course is to study the lives of Korean people, to have its living images in Korean history and to get the direction of the future lives of Korean.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
89	4	전선	3091	유럽사회경제사	HISTORY OF EUROPEAN SOCIAL ECONOMY	3.0	3.0	사학, 유럽문화학	History	Tue07-09 1200-1330(문211), Fri07-09 1200-1330(문211)	권형진	ENGLISH	History of European Social Economy: Survey of Economic Thoughts from early modern time to 20th century, including Social Changes with economic Development in the European Societies.	Theory	
90	4	전선	3431	수자원시스템공학	WATER RESOURCES SYSTEM ENGINEERING	3.0	3.0	사회환경공학	Civil & Environmental System Engineering	Mon04-06 1030-1200(생453), Fri07-09 0900-1030(생453)	김선주	English	Hydrological analysis, frequency analysis, reservoirs and dams, hydro-power generation, planning of water resources development projects, engineering approaches for the multipurpose use of water resources systems, flood control.	Theory	
91	2	전선	3432	재료역학	MECHANICS OF MATERIALS	3.0	3.0	사회환경공학	Civil & Environmental System Engineering	Mon13-16 1500-1700(생351), Thur17-18 1700-1800(생351)	김기두	English	It is to understand the force and deformation/deflection. It covers the relationship between stress and strain for slender members such as bar, shaft, beam, and column. The lecture includes the elastic analysis and energy methods.	Theory	
92	3	전필	2057	철근콘크리트설계	REINFORCED CONCRETE DESIGN	3.0	3.0	사회환경공학	Civil & Environmental System Engineering	Mon07-09 1200-1330(생454), Wed10-12 1330-1500(생454)	원종필	English	Analysis and design of beams, one-way slabs, and columns. Preliminary design of building frames using pattern loading and moment coefficients.	Theory	
93	4	전선	3436	콘크리트구조물설계	DESIGN OF CONCRETE STRUCTURES	3.0	3.0	사회환경공학	Civil & Environmental System Engineering	Mon01-03 0900-1030(생454), Wed04-06 1030-1200(생454)	원종필	English	The Primary objective of this course is to explain the basic concepts necessary to understand and predict the response of prestressed concrete members and to design prestressed concrete structures.	Theory	
94	3	전선	3427	환경공학설계	ENVIRONMENTAL ENGINEERING DESIGN	3.0	3.0	사회환경공학	Civil & Environmental System Engineering	Tue10-12 1330-1500(생452), Thur07-09 1200-1330(생452)	박기영	English	Students will be introduced with theoretical and practical aspects of geo-environmental engineering. This course is an integrated part of elemental engineering design courses in the Department of Environmental Engineering. Prior to this course, students are required to take prerequisite elemental engineering design courses for the design of water and wastewater treatment, solid and hazardous waste treatment, etc. (see the Department Program Roadmap). Fundamentals of geo-environment and its contamination characteristics, remediation of contaminated soils and groundwater, and management will be taught and students will design remediation processes for a given contaminated site via design project practise.	Theory	
95	3	전선	3433	환경도양물리	ENVIRONMENTAL SOIL PHYSICS	3.0	3.0	사회환경공학	Civil & Environmental System Engineering	Tue04-06 1030-1200(생452), Thur01-03 0900-1030(생452)	김성준	English	Physical properties of soil are introduced. Emphasis is on the physical characteristics and phenomena, energy propagation, and transformation. And these properties are also explained in environmental perspectives.	Theory	
96	3	전필	2025	경제성공학	ENGINEERING ECONOMY 1	3.0	3.0	산업공학과	Industrial Engineering	Tue07-09 1200-1330(공B565), Wed13-15 1500-1630(공B565)	오광기	English	The discipline of accounting provides financial and other information essential to the efficient conduct and evaluation of the activities of any organization. Accounting includes the development and analysis of data, the testing of its validity and relevance, and the interpretation and communication of the resulting information to intended users. This program is accredited by the International Assembly for Collegiate Business Education. Students completing the degree will be eligible to sit for various professional certification examinations. The program complies with current educational requirements for the CPA certification.	Theory	
97	2	전선	3246	공학입문설계	INTRODUCTION TO ENGINEERING DESIGN	3.0	3.0	산업공학과	Industrial Engineering	Tue04-06 1030-1200(공A403), Thur01-03 0900-1030(공A403)	김경미	English	This course is introduction for engineering design. In this course, various methodology for problem definition, basic solving methods, fundamental design methods and tools are offered.	Theory	

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98	3	전필	2027	품질경영	QUALITY MANAGEMENT	3.0	3.0	산업공학과	Industrial Engineering	Mon04-06 1030-1200(공 B565), Wed01-03 0900-1030(새203)	김경미	English	This course introduces various topics such as quality cost, quality assurance, quality improvement, quality leadership, customer satisfaction management and quality management system from the viewpoint of management. It also covers statistical process control techniques and 6 sigma which are very useful for analyzing and solving problems related to product and process development and production. The final goal of this course is to learn the importance of quality issues from applying all these materials to a real world system.	Theory	
99	2	전필	2028	O.R.1	OPERATIONS RESEARCH 1	3.0	3.0	산업공학과	Industrial Engineering	Tue01-03 0900-1030(공 B565), Thur04-06 1030-1200(공 B565)	고성석	English	The concepts and methods of Operations Research are pervasive. Students and graduates advise the the public and private sectors on energy policy; design and operation of urban emergency systems; defense; health care; water resource planning; the criminal justice system; transportation issues. They also address a wide variety of design and operational issues in communication and data networks; computer operations; marketing; finance; inventory planning; manufacturing; and many areas designed to improve business productivity and efficiency. The subject impacts biology and genomics, the internet, the airline system, international banking and finance. It is a subject of beauty, depth, infinite breadth and applicability.	Theory	
100	2	전필	2060	디자인영어1	DESIGN ENGLISH 1	2.0	3.0	산업디자인	Industrial Design	Tue03-08 1000-1300(예720)	이주영	English	The objective for these series(design English 1,2,3,4) of subjects is to help students to make design presentations in English freely.	Theory+ Practice	
101	2	전필	2951	디자인영어1	DESIGN ENGLISH 1	2.0	3.0	산업디자인	Industrial Design	Tue09-14 1300-1600(예720)	이주영	English	The objective for these series(design English 1,2,3,4) of subjects is to help students to make design presentations in English freely.	Theory+ Practice	
102	3	전필	2059	디자인영어3	DESIGN ENGLISH 3	2.0	3.0	산업디자인	Industrial Design	Fri03-08 1000-1300(예501)	이주연	English	The objective for these series(design English 1,2,3,4) of subjects is to help students to make design presentations in English freely.	Theory+ Practice	
103	3	전필	2952	디자인영어3	DESIGN ENGLISH 3	2.0	3.0	산업디자인	Industrial Design	Fri11-16 1400-1700(예501)	이주연	English	The objective for these series(design English 1,2,3,4) of subjects is to help students to make design presentations in English freely.	Theory+ Practice	
104	2	전선	3490	인터랙티브디자인1	INTERACTIVE DESIGN 1	3.0	4.0	산업디자인	Industrial Design	Tue01-08 0900-1300(예715)	강성중	English	This subject provides students with opportunities to produce experimental inter active media based on their study on new technologies and the new possibilities for the existence of things.	Theory+ Practice	
105	4	전선	4299	LAB.프로젝트1	LAB.PROJECT 1	6.0	7.0	산업디자인	Industrial Design	Thur03-08 1000-1300(예 722), Thur11-18 1400-1800(예722)	강성중, 강 슬기	English	This subject allows students to select a field of their concern and research the theme of their study on consultation with the professor in charge to improve the understanding of design and design competence.	Theory+ Practice	
106	1	지교	0437	경제학원론1	PRINCIPLES OF ECONOMICS 1	3.0	3.0	상경대학	College of Commerce & Economics	Wed07-09 1200-1330(상허관 108), Fri07-09 1200-1330(상허관 108)	박재민	English	Introduction to economics,with a focus on how economists observe and explain economic problems. Outlines the basic unifying themes of economics : scarcity and choice. Defines key forms & ideas of market, demand and supply.	Theory	
107	1	지교	0032	현대경제와국제무역	TRADE IN THE CONTEMPORARY ECONOMY	3.0	3.0	상경대학	College of Commerce & Economics	Mon01-03 0900-1030 (상허관222), Wed04-06 1030-1200(상허관 222)	황해두	English	Is designed to acquaint students with the global economy characterized by information technology revolution and internationalization, and to enable them to understand the importance and practicality of trade and investment. Also, it introduces students to the basic procedures of exporting/importing, the terms of contracts, insurance, and payments in international transactions	Theory	
108	3	전선	3897	물리화학1	PHYSICAL CHEMISTRY 1	3.0	3.0	생명공학전공	Bioscience & Biotechnology	Mon04-06 1030-1200(산학 219), Wed01-03 0900-1030(산학 219)	김양미	English	This course will cover the thermodynamics and equilibrium. This course provides a fundamental understanding of the physical chemistry important in bioscience and biotechnology.	Theory	
109	2	전선	3899	분석화학실험	ANALYTICAL CHEMISTRY LAB.	2.0	4.0	생명공학전공	Bioscience & Biotechnology	Fri01-08 0900-1300(농202)	김성현	English	Focus will be made so that students can successfully apply their knowledge acquired in Analytical Chemistry class to practical problems through experiments. Students will learn various fundamental techniques required in the analytical chemistry laboratories.	Experiment+ Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
110	3	전선	3902	생화학2	BIOCHEMISTRY 2	3.0	3.0	생명공학전공	Bioscience & Biotechnology	Tue01-03 0900-1030(산학 219), Thur04-06 1030-1200(산학 219)	김동은	English	Topics on this course will be production and storage of energy in a cell, degradation and biosynthesis of carbohydrates, lipid, amino acid, and nucleic acid.	Theory	
111	4	전선	3737	뇌와행동	BRAIN AND BEHAVIOR	3.0	3.0	생명과학	Biological Science	Mon07-09 1200-1330(이 B103), Wed10-12 1330-1500(이 B104)	한정수	English	A lecture and discussion course on the neurobiology of behavior. Topics may include biological clocks, eating behavior,sexual behavior,addiction,mental illness,and neurodegenerative diseases.	Theory	
112	3	전선	3725	동물생리학및실험	ANIMAL PHYSIOLOGY & LAB.	3.0	4.0	생명과학	Biological Science	Mon01-04 0900-1100(이 B104), Thur09-12 1300-1500(이실 401)	한정수	English	Introduction to animal physiological principles, emphasizing metabolism, irritability, reproduction, movement, adaptation, and experiments concerning the function of physiological materials.	Theory+ Practice	
113	3	전선	3983	동물생리학및실험	ANIMAL PHYSIOLOGY & LAB.	3.0	4.0	생명과학	Biological Science	Tue01-04 0900-1100(이 B104), Thur13-16 1500-1700(이실 401)	한정수	English	Introduction to animal physiological principles, emphasizing metabolism, irritability, reproduction, movement, adaptation, and experiments concerning the function of physiological materials.	Theory+ Practice	
114	2	전선	3724	생물유기화학	BIO ORGANIC CHEMISTRY	3.0	3.0	생명과학	Biological Science	Mon16-18 1630-1800(이 B104), Fri02-04 0930-1100(이 B104)	김동학	English	A study of basic concepts of organic chemistry to understand the biological process	Theory	
115	2	전선	3729	생화학1	BIOCHEMISTRY 1	3.0	3.0	생명과학	Biological Science	Mon01-03 0900-1030(이 B107), Tue01-03 0900-1030(이 B107)	조명환	English	This course will covers the topics about the structures and characteristics of carbohydrates, lipid, protein, and nucleic acid.	Theory	
116	2	전선	3973	생화학1	BIOCHEMISTRY 1	3.0	3.0	생명과학	Biological Science	Mon09-11 1300-1430(이 B104), Tue09-11 1300-1430(이 B104)	조명환	ENGLISH	This course will covers the topics about the structures and characteristics of carbohydrates, lipid, protein, and nucleic acid.	Theory	
117	4	전선	3218	산업용섬유및설계	TECHNICAL TEXTILES AND DESIGNS	3.0	3.0	섬유공학과	Textile Engineering	Mon13-15 1500-1630(공 B555), Tue09-11 1300-1430(공 B555)	서문호	English	Technical textiles, used in all the industries to give special functions and/or to improve their properties to the engineering material, will be studied, introducing a material, processing and properties of technical textile used in various fields of engineering.	Theory	
118	3	전필	2019	섬유고분자화학	FIBER AND POLYMER CHEMISTRY	3.0	3.0	섬유공학과	Textile Engineering	Mon10-12 1330-1500(공 B555), Fri13-15 1500-1630(공 B555)	고준석	English	Chemical structure, solution properties, utilization of surface active agents in the textile processes, and properties and mechanism of scouring and bleaching agents are discussed.	Theory	
119	2	전선	3215	섬유연속공정해석	TEXTILE CONTINUOUS PROCESSING	3.0	3.0	섬유공학과	Textile Engineering	Mon04-06 1030-1200(공 B555), Fri13-15 1500-1630(공 B555)	서문호	English	Analysis and automatic control of each step of textile manufacturing process, connection of various textile processings, and subsequent quality control are studied	Theory	
120	2	전선	3213	유기화학	ORGANIC CHEMISTRY	3.0	3.0	섬유공학과	Textile Engineering	Mon10-12 1330-1500(공 B555), Wed10-12 1330-1500(공 B555)	김성동	English	Fibers, dyes, finishing agents, auxiliaries are organic materials. Synthetic method, chemical structure, reactivity of organic compounds such as hydrocarbons, alcohols, amines, carboxylates are taught to consolidate the foundation for textile chemistry.	Theory	
121	2	전선	3366	디지털상거래와소비자	DIGITAL COMMERCE AND CONSUMER	3.0	3.0	소비자정보	Consumer Information Science	Mon04-06 1030-1200(상허관 108), Wed04-06 1030-1200(상허관 108)	박선영	English	Through an introduction to the digital commerce including e-commerce, mobile-commerce and T-commerce, consumer related information flow system in the current market can be analyzed through commerce activity.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
122	2	전선	3363	소비자경제학	CONSUMER ECONOMICS	3.0	3.0	소비자정보	Consumer Information Science	Mon07-12 1200-1500(상허관 108)	김소라	English	This subject aims to tackle basic theories of consumer economics and cultivate abilities to apply this to actual life. As such, this subject analyzes consumer behavior and utility maximization of consumers as a subject of economy based on the Microeconomics theory, and especially focuses on the understanding and analysis of social problems related to consumption behavior. This study is one of the subjects about consumer market analysis that it needs knowledge about Economic Theories and Basic Statistics.	Theory	
123	3	전선	3375	소비자재무론	CONSUMER FINANCIAL AFFAIRS	3.0	3.0	소비자정보	Consumer Information Science	Tue13-18 1500-1800(상허관 108)	백은영	English	Learn about the efficiency of consumer financial management, the basic strategy and information for the promotion of consumer's economic welfare. Acquire knowledge and its adaptation about risk management, efficient assets protection, grope for an investment plan and constructing the optimization of consumer portfolio.	Theory	
124	2	전선	3367	컨슈머리즘	CONSUMERISM	3.0	3.0	소비자정보	Consumer Information Science	Tue01-06 0900-1200(상허관 108)	문은숙	English	This subject teaches the history, current status and other general features of consumerism in order to protect consumers in the modern society, recover consumer's supremacy, and search for education tools, information and other concrete measures to strengthen the knowledge and consciousness of the consumers.	Theory	
125	3	전필	2155	군론	GROUPS	3.0	3.0	수학	Mathematics	Tue13-16 1500-1700(01 B107), Thur13-14 1500-1600(01 B107)	이승훈	English	It covers basic concepts of a group - normal subgroup, cosets, homomorphism and, isomorphism, Lagrange theorem and Cayley theorem, symmetric group, Sylow's theorem, and its application, direct sum and direct product, and the structure of finitely generated abelian groups.	Theory	
126	3	전필	2156	복소수함수론1	COMPLEX ANALYSIS 1	3.0	3.0	수학	Mathematics	Wed13-15 1500-1630(01 B107), Fri04-06 1030-1200(01 B107)	최인승	English	It covers basic properties of complex variable functions such as analytic functions, power series, line integrals and Cauchy's theorem.	Theory	
127	4	전선	3753	위상수학특강	TOPICS IN TOPOLOGY	3.0	3.0	수학	Mathematics	Tue04-06 1030-1200(이과 221), Thur07-09 1200-1330(이과 221)	이상진	English	It covers homological groups and fundamental groups of topological spaces.	Theory	
128	3	전선	3754	응용수학개론1	INTRODUCTION TO APPLIED MATHEMATICS 1	3.0	3.0	수학	Mathematics	Tue04-06 1030-1200(01 B107), Thur04-06 1030-1200(01 B107)	정은욱	English	It covers mathematical modeling, simulation, ordinary differential equation, and mathematical theory.	Theory	
129	3	전선	3623	복소해석학2	COMPLEX ANALYSIS 2	3.0	3.0	수학교육과	Mathematics Education	Mon10-12 1330-1500(사 216), Wed07-09 1200-1330(사216)	조도상	English	Laurent series, Residue theorem, harmonic functions, conformal mapping, and Riemann mapping theorem.	Theory	
130	3	전필	2083	위상수학1	TOPOLOGY I	3.0	3.0	수학교육과	Mathematics Education	Mon04-06 1030-1200(사 216), Wed01-03 0900-1030(사216)	문명호	English	Metric spaces, open sets, closed sets, topology, sequence, continuity, connectedness, separable space, compactness, completion, Hilbert space, contraction, and Urysohn's metrization theorem.	Theory	
131	2	전선	3631	조합및그래프이론	COMBINATORIAL MATHEMATICS	3.0	3.0	수학교육과	Mathematics Education	Tue01-03 0900-1030(사 216), Thur04-06 1030-1200(사216)	김석진	English	Combinatorial Mathematics Includes topics of discrete mathematics such as permutations and combinations, generating functions, recurrence relations, inclusion and exclusion, and basic concepts and applications of graph theory.	Theory	
132	4	전선	3626	중등대수교육2	TOPICS IN HIGH SCHOOL ALGEBRA 2	3.0	3.0	수학교육과	Mathematics Education	Mon13-16 1500-1700(사 216), Thur17-18 1700-1800(사216)	최상기	English	We discuss how to teach the arithmetic of equations and numbers in high school. This course also covers the history of equation since Babilgon and Diophantus. Fields, algebraic numbers, transcendental numbers, construction with straight edge and coupars, general equation, solvability by radicals, Galois theory etc.	Theory	
133	2	전필	2084	해석학1	ANALYSIS I	3.0	3.0	수학교육과	Mathematics Education	Mon01-03 0900-1030(사 216), Wed04-06 1030-1200(사216)	문명호	English	Real and complex number system, basic topology, sequence, series, continuity, differentiation, and Riemann-Stieltjes integral.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
134	3	전필	2085	현대대수학	MODERN ALGEBRA	3.0	3.0	수학교육과	Mathematics Education	Tue10-12 1330-1500(사 216), Thur07-09 1200-1330(사216)	최상기	English	Normal subgroups, symmetric groups, general linear group, Cayley's theorem, Sylow's theorem, structure theorem of finitely generated abelian group, ideals, and quadratic integers.	Theory	
135	3	전선	3184	기기분석및실습	INSTRUMENTAL ANALYSIS AND PRACTICE	2.0	2.0	신소재공학	Materials Chemistry & Engineering	Fri03-06 1000-1200(공별 231)	최명석	English	In this subject, the principles of various analyzers such as spectroscopy and chromatography are studied to identify the unknown materials obtained by chemical reactions. The lectures on the operating procedures of the instruments and interpreting methods of the results are also provided.	Theory	
136	2	전선	3188	유기화학1	ORGANIC CHEMISTRY I	3.0	3.0	신소재공학	Materials Chemistry & Engineering	Tue01-03 0900-1030(공별 231), Thur04-06 1030-1200(공별 231)	유영태	English	This course deals with the structure, properties and synthesis of organic compounds. In particular, this course provides the basic knowledge of molecular structure, isomeric effect, reaction mechanism of alkanes, alkenes, alkynes, alcohols and alkyl halides. Furthermore, the concept of electron transfer via induction and resonance effects essential for the understanding of chemical reaction will be also focused. This course is prerequisite for polymer chemistry, organic chemistry experiment and functional polymers.	Theory	
137	4	전선	3191	촉매공학	CATALYTIC ENGINEERING	3.0	3.0	신소재공학	Materials Chemistry & Engineering	Tue07-09 1200-1330(공별 231), Thur10-12 1330-1500(공별 231)	김화중	English	Fundamentals related to absorption isotherm, catalytic reaction, physico-chemical properties of catalysts and their manufacturing processes, and shaping processes. Prerequisite : Chemical Reaction Engineering.	Theory	
138	4	전선	3192	표면화학	SURFACE CHEMISTRY	3.0	3.0	신소재공학	Materials Chemistry & Engineering	Mon04-06 1030-1200(공 A207), Wed01-03 0900-1030(공 A207)	유영태	English	Fundamental aspects and physicochemical principles of various interfaces such as adsorption, wetting and adhesion. The thermodynamic principles and behavior occurring in gas/ liquid, liquid/liquid, solid/solid, and solid/gas interfaces will be emphasized. Also includes principles related to the charged surface, and Brownian motion, stability, and destruction of colloids. Prerequisite : Physical Chemistry	Theory	
139	2	전선	3677	영어교육론	THEORIES IN TEACHING ENGLISH AS A FOREIGN LANGUAGE	3.0	3.0	영어교육과	English Education	Wed01-06 0900-1200(사218)	고현숙	English	This course provides a comprehensive survey of basic concepts, theories, and principles of English language learning and teaching.	Theory	
140	3	전선	3947	고급영어회화	ADVANCED ENGLISH CONVERSATION	3.0	3.0	영어영문	English Language & Literature	Mon04-06 1030-1200(문 213), Wed01-03 0900-1030(문213)	Jason Lim	English	This course is designed to provide students with opportunities to practice more advanced communication skills in English.	Theory	
141	3	전선	3948	고급영어회화	ADVANCED ENGLISH CONVERSATION	3.0	3.0	영어영문	English Language & Literature	Tue01-03 0900-1030(산학 211), Thur04-06 1030-1200(산학 211)	Jason Lim	English	This course is designed to provide students with opportunities to practice more advanced communication skills in English.	Theory	
142	3	전선	3949	고급영어회화	ADVANCED ENGLISH CONVERSATION	3.0	3.0	영어영문	English Language & Literature	Tue04-06 1030-1200(산학 211), Thur01-03 0900-1030(산학 211)	Jason Lim	English	This course is designed to provide students with opportunities to practice more advanced communication skills in English.	Theory	
143	4	전선	3962	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문	English Language & Literature	Tue01-03 0900-1030(산학 102), Thur04-06 1030-1200(산학 202)	Grasse	ENGLISH	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
144	4	전선	3963	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문	English Language & Literature	Tue04-06 1030-1200(산학 218), Thur01-03 0900-1030(산학 111)	Grasse	ENGLISH	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
145	4	전선	3964	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문	English Language & Literature	Fri07-12 1200-1500(문213)	조선희	ENGLISH	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
146	4	전선	3965	논문영작문	ACADEMIC WRITING	3.0	3.0	영어영문	English Language & Literature	Mon13-18 1500-1800(문213)	조셉홍	English	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
147	2	전선	3957	영문학개론1	INTRODUCTION TO ENGLISH LITERATURE1	3.0	3.0	영어영문	English Language & Literature	Tue01-04(사 327/328), Thur03-04(사 327/328)	강형민	English	This course aims at surveying the history of English literature from the medieval age, Renaissance, 17th century, to 18th century, focusing on main writers and their works, in order to deepen our understanding of English culture.	Theory	
148	3	전선	3035	영미소설의형성과 발전	THE DEVELOPMENT OF BRITISH AND AMERICAN NOVELS	3.0	3.0	영어영문	English Language & Literature	Mon01-03 0900-1030(문 306), Wed04-06 1030-1200(문306)	Jason Lim	English	"To survey the history of British and American novels from the four wheels of the 18th century novel to the 19th century British and American novels along with the reading of the masterpieces of the period. "	Theory	
149	3	전선	3036	영미소설의형성과 발전	THE DEVELOPMENT OF BRITISH AND AMERICAN NOVELS	3.0	3.0	영어영문	English Language & Literature	Mon01-03 0900-1030(문 213), Wed04-06 1030-1200(문213)	이혜수	English	"To survey the history of British and American novels from the four wheels of the 18th century novel to the 19th century British and American novels along with the reading of the masterpieces of the period. "	Theory	
150	2	전선	3040	영미희곡	BRITISH AND AMERICAN PLAYS	3.0	3.0	영어영문	English Language & Literature	Mon13-16 1500-1700(문 302), Thur17-18 1700-1800(문302)	이형식	English	" The dramatic literature of Britain and America and various trends in theatre as represented by major plays of O'Neill, Miller, Williams, and Shaw. "	Theory	
151	2	전선	3041	영미희곡	BRITISH AND AMERICAN PLAYS	3.0	3.0	영어영문	English Language & Literature	Tue01-06 0900-1200(산학 103)	Unknown	English	" The dramatic literature of Britain and America and various trends in theatre as represented by major plays of O'Neill, Miller, Williams, and Shaw. "	Theory	
152	2	전선	3910	영어음성학	ENGLISH PHONETICS	3.0	3.0	영어영문	English Language & Literature	Tue07-09 1200-1330(문 213), Thur10-12 1330-1500(문213)	한정임	English	"This course is an introduction to English phonetics, which is responsible for the basic speech organs, English consonantal and vocalic structures, English prosody such as stress and intonation, and various sandhi phenomena. "	Theory	
153	3	전선	3958	영어의미화용론	ENGLISH SEMANTICS AND PRAGMATICS	3.0	3.0	영어영문	English Language & Literature	Mon04-06 1030-1200(문 302), Wed01-03 0900-1030(문302)	Hazout	English	The course studies the theories about the meaning in English language and its use in society. Different types of meaning, and how the meaning of the whole emerges from the meaning of the part will be discussed in relation to how English is used by people in social context.	Theory	
154	3	전선	3959	영어의미화용론	ENGLISH SEMANTICS AND PRAGMATICS	3.0	3.0	영어영문	English Language & Literature	Mon10-12 1330-1500(문 302), Wed07-09 1200-1330(문302)	Hazout	English	The course studies the theories about the meaning in English language and its use in society. Different types of meaning, and how the meaning of the whole emerges from the meaning of the part will be discussed in relation to how English is used by people in social context.	Theory	
155	2	전선	3952	영어작문연습	PRACTICE IN ENGLISH COMPOSITION	3.0	3.0	영어영문	English Language & Literature	Thur13-18 1500-1800(산학 211)	조셉홍	English	Students in this course understand the fundamentals of English composition with special attention to various styles of English paragraphs and with special emphasis on the actual writing of English paragraphs and essays.	Theory	
156	2	전선	3953	영어작문연습	PRACTICE IN ENGLISH COMPOSITION	3.0	3.0	영어영문	English Language & Literature	Mon07-12 1200-1500(문213)	Unknown	English	Students in this course understand the fundamentals of English composition with special attention to various styles of English paragraphs and with special emphasis on the actual writing of English paragraphs and essays.	Theory	
157	4	전선	3955	현대영미소설	CONTEMPORARY BRITISH AND AMERICAN NOVELS	3.0	3.0	영어영문	English Language & Literature	Fri13-18 1500-1800(산학 218)	Unknown	English	"Major 20th century and contemporary British and American novels in the context of Stream of Consciousness, Lost Generation, Alienation and Loss of Identity, and Post-Modernism. "	Theory	
158	3	전선	3045	SHAKESPEARE	SHAKESPEARE	3.0	3.0	영어영문	English Language & Literature	Mon17-18 1700-1800(문 302), Thur13-16 1500-1700(문302)	이형식	English	" Shakespeare's dramatic literature through his representative tragedies and comedies: Hamlet, Macbeth, King Lear, Othello, and the Romantic comedies. "	Theory	
159	3	전선	3046	SHAKESPEARE	SHAKESPEARE	3.0	3.0	영어영문	English Language & Literature	Fri13-18 1500-1800(문302)	Unknown	English	" Shakespeare's dramatic literature through his representative tragedies and comedies: Hamlet, Macbeth, King Lear, Othello, and the Romantic comedies. "	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
160	3	전선	3037	영문학과문화연구	ENGLISH LITERATURE AND CULTURAL STUDIES	3.0	3.0	영어영문, 문화콘텐츠	English Language & Literature	Wed13-16 1500-1700(문213), Fri05-06 1100-1200(문213)	김종갑	English	"This course is an attempt to understand how culture is produced and consumed in society. Diverse fields of academic inquiries, such as sociology, history, ethnography, psychoanalysis, literary criticism, will be introduced and discussed. Students are supposed to ask questions about their own subjectivity as the result of cultural construction. "	Theory	
161	4	전선	3455	기능성유전체학	FUNCTIONAL GENOMICS	3.0	3.0	응용생물과학	Applied Bioscience	Mon04-06 1030-1200(생254), Wed01-03 0900-1030(생254)	정우석	English	Lecture emphasis on understanding gene expression regulation and function. Use of molecular biology tools such as microarray analysis, gene transformation, functional complementation, mutant analysis and other basic approaches will be discussed. Prerequisites are more than one of the basic courses in molecular biology, plant biochemistry, plant physiology, introduction of biotechnology, genetics and cell biology courses.	Theory	
162	3	전선	3459	식물생화학	PLANT BIOCHEMISTRY	3.0	3.0	응용생물과학	Applied Bioscience	Mon04-06 1030-1200(생253), Wed01-03 0900-1030(생253)	정일민	English	Lectures on the basic concepts of metabolic pathway, carbohydrates, lipid, protein and thermodynamics, energy requirement, regulation of metabolism, also on photosynthesis, respiration and nitrogen fixation in higher plant. Also, enzymes and pathways involved in plant intermediary metabolism.	Theory	
163	3	전선	8454	식품화학	FOOD CHEMISTRY	3.0	3.0	응용생물과학	Applied Bioscience	Tue04-06 1030-1200(생254), Thu01-03 0900-1030(생254)	이킬리	English	Lecture on the physical and chemical properties of carbohydrate, protein, lipid, pigment and taste components in Food then study on the functions and changes of items previously mentioned above in Food.	Theory	
164	4	전선	3461	약용기능성물질학	MEDICINAL SUBSTANCES IN PLANT	3.0	3.0	응용생물과학	Applied Bioscience	Mon10-12 1330-1500(생254), Wed10-12 1330-1500(생254)	정일민	English	This course will examine the use of cultivated and wild plants in human medicines according to oriental medical traditions. Topics will include herbal medicine use from ancient times to the present in different human cultures, important medicinal chemicals produced by plants, the different ways in which herbal medicines can be used, the properties of popular medicinal plants, and the legal aspects of medicinal plant regulation.	Theory	
165	4	전선	3353	다변량자료분석	MULTIVARIATE DATA ANALYSIS	3.0	3.0	응용통계학과	Applied Statistics	Mon07-09 1200-1330(상허관219), Wed10-12 1330-1500(상허관219)	김형문	English	Analysis of data when observation include simulations measurements on many variables: multivariate normal distribution, multivariate analysis of variance, principal components analysis, factor analysis of variance, principal components analysis, factor analysis, structural equation models, canonical correlation analysis, discrimination and classification, cluster analysis, multidimensional scaling.	Theory	
166	3	전선	3355	수리통계학1	MATHEMATICAL STATISTICS I	3.0	3.0	응용통계학과	Applied Statistics	Tue07-09 1200-1330(상허관220), Thur10-12 1330-1500(상허관220)	여성철	English	The basic concepts of probability and topics such as distribution of continuous and discrete types, multivariate distributions, and sampling distributions. In addition, the limit theorems such as law of large number and central limit theorem are studied.	Theory	
167	2	전선	3362	응용확률	APPLIED PROBABILITY	3.0	3.0	응용통계학과	Applied Statistics	Mon10-12 1330-1500(상허관217), Wed07-09 1200-1330(상허관217)	김형문	English	With interesting topics related to probability, this course introduces basic mathematical concepts of probability and distributions to new students majoring statistics. Also, basic concepts related to game theory and statistical concepts for modelling is briefly outlined in basic level.	Theory	
168	4	전선	3359	통계전산처리1	COMPUTER PROCESSING OF STATISTICAL DATA I	3.0	3.0	응용통계학과	Applied Statistics	Tue01-03 0900-1030(상허관103), Thur04-06 1030-1200(상허관103)	서한손	English	Computer usage as a tool for statistical data analysis : data acquisition, data organization, data manipulation: structure and content of statistical packages.	Theory+ Practice	
169	4	전선	3889	게임프로그래밍	GAME PROGRAMMING	3.0	4.0	인터넷·미디어	Internet & Media Engineering	Tue03-06 1000-1200(새403), Fri03-06 1000-1200(새403)	김형석	English	Study game programming methodology for games.	Theory+ Practice	
170	3	전선	3883	운영체제	OPERATING SYSTEM	3.0	3.0	인터넷·미디어	Internet & Media Engineering	Mon16-18 1630-1800(새601), Wed16-18 1630-1800(새601)	임민규	English	Covers a specific operating system, such as UNIX or Windows NT, or the advanced operating system, such as distributed operating system in terms of underlying concepts, features, and capability.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
171	3	전선	4050	운영체제	OPERATING SYSTEM	3.0	3.0	인터넷-미디어	Internet & Media Engineering	Wed01-03 0900-1030(새 503), Fri13-15 1500-1630(새601)	임민규	English	Covers a specific operating system, such as UNIX or Windows NT, or the advanced operating system, such as distributed operating system in terms of underlying concepts, features, and capability.	Theory	
172	4	전선	3890	졸업프로젝트1	GRADUATION PROJECT 1	2.0	3.0	인터넷-미디어	Internet & Media Engineering	Thur13-15 1500-1630(새 503), Fri13-15 1500-1630(새401)	임창훈	English	This course is basically designed for motivating students to effectively put together what they have learned about computer engineering in applying them to practical problems. The course is project-oriented, and organized as a two-semester course. In a graduation projects 1, the project is decided and progress is made up to the rapid prototype phase.	Theory+ Practice	
173	4	전선	4051	졸업프로젝트1	GRADUATION PROJECT 1	2.0	3.0	인터넷-미디어	Internet & Media Engineering	Thur16-18 1630-1800(새 503), Fri16-18 1630-1800(새403)	임창훈	English	This course is basically designed for motivating students to effectively put together what they have learned about computer engineering in applying them to practical problems. The course is project-oriented, and organized as a two-semester course. In a graduation projects 1, the project is decided and progress is made up to the rapid prototype phase.	Theory+ Practice	
174	3	전필	2356	전기기초설계프로젝트	ELECTIRC DESIGN PROJECT1	1.0	2.0	전기공학과	Electrical Engineering	Tue17-19 1700-1900(공 C486)	이만중	English	One of electric design projects is assigned to each team to perform basic research, design and simulation for a final project. Performance evaluation sheet will be prepared to extend it to the next project Electric Design Project 2.	Experiment+ Practice	
175	3	전선	3178	제어공학	CONTROL ENGINEERING	3.0	3.0	전기공학과	Electrical Engineering	Mon01-03 0900-1030(공 C483), Fri01-03 0900-1030(공 C483)	한수희	English	It covers history of the control engineering, principle of the feedback system, characteristics of the continuous and discrete system, modeling of the control system, Laplace and Z-transform, State-space representation.	Theory	
176	3	전선	4178	제어공학	CONTROL ENGINEERING	3.0	3.0	전기공학과	Electrical Engineering	Wed01-03 0900-1030(공 C483), Fri04-06 1030-1200(공 C483)	한수희	English	It covers history of the control engineering, principle of the feedback system, characteristics of the continuous and discrete system, modeling of the control system, Laplace and Z-transform, State-space representation.	Theory	
177	3	전선	3172	마이크로프로세서설계및응용	MICROPROCESSOR DESIGN AND APPLICATION	3.0	4.0	전기공학과, 로봇공학	Electrical Engineering, Robotics	Mon13-16 1500-1700(공 C483), Thur11-14 1400-1600(공 C486)	최영호	English	It introduces uP to cover the structures(hardware), design(software), peripheral devices and application programming.	Theory+ Practice	
178	3	전선	4172	마이크로프로세서설계및응용	MICROPROCESSOR DESIGN AND APPLICATION	3.0	4.0	전기공학과, 로봇공학	Electrical Engineering, Robotics	Mon17-19 1700-1900(공 C483), Thur07-10 1200-1400(공 C486)	최영호	English	It introduces uP to cover the structures(hardware), design(software), peripheral devices and application programming.	Theory+ Practice	
179	4	전선	3862	고주파회로설계	RF & MICROWAVE CIRCUIT DESIGN	3.0	3.0	전자공	Electronic Engineering	Mon04-06 1030-1200(공 C482), Wed01-03 0900-1030(공 C482)	구현철	English	Transmission-line theory, VSWR, RF circuit theory, Smith chart, impedance matching, simulation software.	Theory	
180	4	전선	3877	무선네트워크설계	DESIGN OF WIRELESS NETWORKS	3.0	3.0	전자공	Electronic Engineering	Tue10-12 1330-1500(공 C485), Thur07-09 1200-1330(공 C485)	권영구	English	Help students to understand the basic architecture of wireless networks by analyzing next generation cellular networks, WLAN, WPAN, and designing various wireless network protocols and applications with network simulation tools.	Theory	
181	3	전선	3864	물리전자공학	PHYSICAL ELECTRONICS	3.0	3.0	전자공	Electronic Engineering	Mon01-03 0900-1030(공 C482), Wed04-06 1030-1200(공 C482)	박기찬	English	Quantum mechanics, Quantum statistics, Solid state theory, semiconductor theory.	Theory	
182	3	전선	3865	불규칙신호론	RANDOM PROCESSES	3.0	3.0	전자공	Electronic Engineering	Tue07-09 1200-1330(공 C485), Thur10-12 1330-1500(공 C485)	윤은철	English	Probability theory, Random variable and vector, Random process.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
183	4	전선	3878	아날로그집적회로설계	ANALOG INTEGRATED CIRCUIT DESIGN	3.0	3.0	전자공	Electronic Engineering	Mon10-12 1330-1500(공 C485), Wed07-09 1200-1330(공 C485)	이강윤	English	In this course, operational principles of differential amplifier and operational amplifier as well as device and process theory for design of CMOS analog Integrated Circuits are studied based on the basics of the "Electronic Circuits 1,2" and designed with EDA Tools. Through the design and practice, full design procedures of Integrated Circuits are studied by simulating with SPICE and layout the operational amplifier which is one of the most important blocks.	Theory	
184	3	전선	3871	전자회로2	ELECTRONIC CIRCUITS 2	3.0	3.0	전자공	Electronic Engineering	Mon07-09 1200-1330(공 C485), Wed10-12 1330-1500(공 C485)	이강윤	English	Digital circuit elements, LSI, Non-linear amplifier, Oscillator, Frequency response of Operational Amplifier.	Theory	
185	3	전선	3874	데이터통신	DATA COMMUNICATION	3.0	3.0	전자공, 로봇공학	Electronic Engineering, Robotics	Tue01-03 0900-1030(공 C485), Thur04-06 1030-1200(공 C485)	김영범	English	Introduces data transmission and data communication. Studies interfaces, protocols, data specification for inter-operating communication channels, data transmission techniques, communication equipment	Theory	
186	3	전선	3978	데이터통신	DATA COMMUNICATION	3.0	3.0	전자공, 로봇공학	Electronic Engineering, Robotics	Tue04-06 1030-1200(공 C485), Thur01-03 0900-1030(공 C485)	김영범	ENGLISH	Introduces data transmission and data communication. Studies interfaces, protocols, data specification for inter-operating communication channels, data transmission techniques, communication equipment	Theory	
187	2	교직	0856	교육심리	EDUCATIONAL PSYCHOLOGY	2.0	2.0	전체	All majors	Thur05-08 1100-1300(산학 212)	진석연	English	It introduces psychological theories of learning, developmental theories, theories of guidance and discipline, and others to find ways to make use of them for effective teaching in actual school contexts.	Theory	
188	3		0831	교육평가	EDUCATIONAL EVALUATION	2.0	2.0	전체	All majors	Wed13-16 1500-1700(산학 212)	이현숙	English	This Course is designed to introduce theories and practices of evaluation students' cognitive and affective characteristics and effectiveness of educational program, and to provide basic principles of constructing and using large-scale standardized tests.	Theory	
189	4	교직	0808	교육행정및교육경영	EDUCATIONAL ADMINISTRATION & MANAGEMENT	2.0	2.0	전체	All majors	Wed09-12 1300-1500(산학 212)	양성관	English	The educational system, planning, organization, teaching personnel, management, finances, facilities, supervision, and class management.	Theory	
190		선교	1423	동양문화사	HISTORY OF ASIAN CIVILIZATION	2.0	2.0	전체	All majors	Mon13-16 1500-1700(종강 209)	손영홍	Chinese	This course is designed to give students an understanding of East Asian history, its culture, its political movements, and the characteristics of its society and economy. Specific cases in China and Japan will be examined.	Theory	For foreign students only
191		선교	1366	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Wed09-12 1300-1500(산학 205), Fri01-02 0900-1000(산학 205)	Eric	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
192		선교	1367	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue05-08 1100-1300(산학 205), Fri03-04 1000-1100(산학 205)	Eric	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
193		선교	1368	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Wed13-15 1500-1630(산학 205), Fri13-15 1500-1630(산학 205)	Holden	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
194		선교	1369	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon01-03 0900-1030(산학 205), Thur01-03 0900-1030(산학 205)	Eric	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
195		선교	1370	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon13-15(산학 205), Thur13-15 (산학205)	Jae	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
196		선교	1371	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon01-03 0900-1030(산학 204), Wed04-06 1030-1200(산학 204)	Katherine	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
197		선교	1372	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon04-06 1030-1200(산학 204), Thur07-09 1200-1330(산학 204)	Katherine	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
198		선교	1373	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon07-09 1200-1330(산학 204), Thur01-03 0900-1030(산학 204)	Katherine	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
199		선교	1374	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon10-12 1330-1500(산학 204), Wed01-03 0900-1030(산학 204)	Katherine	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
200		선교	1375	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon13-15 1500-1630(산학 204), Thur04-06 1030-1200(산학 204)	Eric	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
201		선교	1376	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue01-03 0900-1030(산학 204), Fri04-06 1030-1200(산학 204)	Patrick	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
202		선교	1377	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue04-06 1030-1200(산학 204), Fri07-09 1200-1330(산학 204)	Patrick	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
203		선교	1378	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue07-09 1200-1330(산학 204), Fri01-03 0900-1030(산학 204)	Patrick	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
204		선교	1379	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Wed07-09 1200-1330(산학 204), Fri10-12 1330-1500(산학 204)	Paul	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
205		선교	1380	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue10-12 1330-1500(산학 204), Thur10-12 1330-1500(산학 204)	Patrick	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
206		선교	1381	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue13-15 1500-1630(산학 204), Fri13-15 1500-1630(산학 204)	Paul	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
207		선교	1382	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon16-17 1630-1730(산학 204), Wed13-16 1500-1700(산학 204)	Paul	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
208		선교	1383	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon01-03 0900-1030(산학 203), Thur04-06 1030-1200(산학 203)	George	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
209		선교	1384	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon04-06 1030-1200(산학 203), Wed07-09 1200-1330(산학 203)	Holden	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
210		선교	1385	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue04-06 1030-1200(산학 203), Fri04-06 1030-1200(산학 203)	George	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
211		선교	1386	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon07-09 1200-1330(산학 203), Wed01-03 0900-1030(산학 203)	Paul	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
212		선교	1387	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue07-09(산학203), Thur07-09(산학203)	Jae	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
213		선교	1388	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon10-12 1330-1500(산학203), Thur13-15 1500-1630(산학203)	Scott	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
214		선교	1389	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Tue10-12(산학203), Thur01-03(산학203)	Jae	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
215		선교	1390	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon13-15 1500-1630(산학203), Wed04-06 1030-1200(산학203)	Holden	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
216		선교	1391	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Wed13-15 1500-1630(산학203), Fri10-12 1330-1500(산학203)	George	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
217		선교	1392	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon01-03 0900-1030(산학202), Wed01-03 0900-1030(산학202)	Scott	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
218		선교	1393	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon07-09 1200-1330(산학202), Thur07-09 1200-1330(산학202)	Scott	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
219		선교	1394	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Mon13-15 1500-1630(산학202), Wed13-15 1500-1630(산학202)	Scott	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	
220		선교	1395	실용영어2	PRACTICAL ENGLISH 2	2.0	3.0	전체	All majors	Wed07-09 1200-1330(산학202), Fri01-03 0900-1030(산학202)	Scott	English	Designed for students above the level of Practical English 1, this course aims at developing oral communication skills to the extent that little difficulty is experienced in daily communication. The focus of reading and writing practice is on acquiring wide range of expressions needed in real life situations and suitable for specific issues/themes.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
221		선교	1396	실용영어3	PRACTICAL ENGLISH 3	2.0	3.0	전체	All majors	Tue01-03 0900-1030(산학 203), Fri01-03 0900-1030(산학 203)	George	English	This course aims at developing advanced level proficiency in both spoken and written English so that students can effectively function not only in academic but also business contexts. Students are expected to read with comprehension texts of various topics and genres, and to have skills in both academic and practical writing.	Theory	
222		선교	1397	실용영어3	PRACTICAL ENGLISH 3	2.0	3.0	전체	All majors	Wed10-12 1330-1500(산학 203), Fri07-09 1200-1330(산학 203)	Holden	English	This course aims at developing advanced level proficiency in both spoken and written English so that students can effectively function not only in academic but also business contexts. Students are expected to read with comprehension texts of various topics and genres, and to have skills in both academic and practical writing.	Theory	
223		선교	1398	실용영어3	PRACTICAL ENGLISH 3	2.0	3.0	전체	All majors	Tue16-17 1630-1730(산학 204), Thur13-16 1500-1700(산학 204)	Paul	English	This course aims at developing advanced level proficiency in both spoken and written English so that students can effectively function not only in academic but also business contexts. Students are expected to read with comprehension texts of various topics and genres, and to have skills in both academic and practical writing.	Theory	
224		선교	1399	실용영어3	PRACTICAL ENGLISH 3	2.0	3.0	전체	All majors	Tue13-15(산학 203), Thur10-12 (산학203)	Jae	English	This course aims at developing advanced level proficiency in both spoken and written English so that students can effectively function not only in academic but also business contexts. Students are expected to read with comprehension texts of various topics and genres, and to have skills in both academic and practical writing.	Theory	
225	4	전선	3292	동북아국제관계사	HISTORY OF RELATIONS AMONG NATIONS IN NORTHEAST ASIA	3.0	3.0	정치외교학	Political Science	Fri13-18 1500-1800(상허관 316)	이지용	English	Analysis on the process of the expanding of the western countries to Asia, the background of such expansion, its goals, means, the reactions, and the interactions of the Asian countries from the Yapien War to the beginning of the Pacific War.	Theory	
226	4	전선	3291	세계화화현대국제정치	GLOBALIZATION AND CONTEMPORARY WORLD POLITICS	3.0	3.0	정치외교학	Political Science	Thur01-06 0900-1200(상허관 314)	유철	English	View the globalization and regionalization trends in the Post cold war era and their impact on world economy.	Theory	
227	2	전선	3279	정치학연구방법론	METHODOLOGY IN POLITICAL SCIENCE	3.0	3.0	정치외교학	Political Science	Tue01-06 0900-1200(상허관 314)	한정훈	English	Political methodology create and develop concepts and analytical methods for scientific or rigorous analysis in other substantive specializations of political science such as Korean Politics, Comparative Politics, and International Relations. It divide into three different methods or research tools: comparative, statistical, and game-theoretic.	Theory	
228	4	전선	3827	시공관리	CONSTRUCTION MANAGEMENT	3.0	3.0	건축공학	Architecture Engineering	Tue17-18 1700-1800(건 B201), Fri09-12 1300-1500(건 B201)	김경환	English	Subject provides the students with architectural skills to select the method and to manage process and materials. This course will also create an awareness of simulation techniques and the regulation of construction.	Theory	
229	4	전선	3828	철근콘크리트공학2	REINFORCED CONCRETE ENGINEERING 2	3.0	3.0	건축공학	Architecture Engineering	Mon04-06 1030-1200(건 A207), Wed01-03 0900-1030(건 A207)	김한수	English	Subject teaches the strength, behavior, and design of indeterminate reinforced concrete structures, with primary emphasis on columns and slab systems. It includes analysis and design of foundations and structural walls.	Theory	
230	4	전선	3819	실내공간디자인2	INTERIOR DESIGN 2	3.0	3.0	건축설계	Architecture Design	Wed13-16 1500-1700(건 A207), Fri05-06 1100-1200(건 A207)	김종진	English	This course focuses on the ability to express interior architecture space based on understanding architecture space. Practice is offered in small and middle scale interior planning with material, furniture, sketch, color of architecture.	Theory	
231	4	전선	3835	실내공간디자인2	INTERIOR DESIGN 2	3.0	3.0	주거환경	Housing Environment	Wed13-16 1500-1700(건 A207), Fri05-06 1100-1200(건 A207)	김종진	English	This course focuses on the ability to express interior architecture space based on understanding architecture space. Practice is offered in small and middle scale interior planning with material, furniture, sketch, color of architecture.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
232	3	전선	3838	주거연출및코디네이션	HOUSING DISPLAY AND COORDINATION	3.0	4.0	주거환경	Housing Environment	Thur03-10 1000-1400(건 A209)	우지연	English	Study basic principles and knowledge of colors, textile, lighting to create interior display and coordination. Also, include theories/methods of interior display and coordination to expanding design skills.	Theory+ Practice	
233	3	전선	3842	현대주거	CONTEMPORARY HOUSING	3.0	3.0	주거환경	Housing Environment	Tue03-08 1000-1300(건 A102)	노현선	English	Study progress of housing by changes of social, cultural and economic aspects and life value. Research interaction between modern society and housing and forecast changes in the future.	Theory	
234	2	전선	3746	대기과학의기초및실험	INTRODUCTION TO ATMOSPHERIC SCIENCE AND LAB.	3.0	4.0	지리학, 공동과학	Geography	Wed09-12 1300-1500(이실 108), Thur13-16 1500-1700(이 B108)	문자연	English	Weather influences our daily lives in so many ways as well as some of the greatest challenges we face come in the form of natural disasters created by weather. In recent years, weather and climate have got more attention due to the occurrence of environmental issues such as from greenhouse warming and ozone depletion in the stratosphere to the global weather influence of El Nino. The main purpose of this class is to convey meteorological concepts and it covers the origin, composition, and structure of the atmosphere, solar energy, air temperature, humidity, clouds, precipitation and winds.	Theory+ Practice	
235	3	전필	2047	가격분석론	COMMODITY PRICE ANALYSIS	3.0	3.0	축산경영	Livestock Business & Marketing Economics	Tue15-17 1600-1730(동 309), Thur05-07 1100-1230(동309)	김민경	English	Analysis of prices and the movement of farm product prices; relations of farm product prices to farm input and other prices; conceptual and statistical analysis of agricultural supply and demand relationships; application of price analysis, price forecasting, agricultural outlook, agricultural policy; adjustment of farming to new price conditions.	Theory	
236	2	전필	2050	수리경제분석및실습	MATHEMATICAL ECONOMICS ANALYSIS AND PRACTICE	3.0	4.0	축산경영	Livestock Business & Marketing Economics	Tue03-06 1000-1200(동 319), Thur03-06 1000-1200(동319)	Unknown	English	The application of mathematical methods to represent economic theories and analyze problems posed in agri-food industry.	Theory+ Practice	
237	4	전선	3383	식품산업금융론	FINANCE OF FOOD INDUSTRIAL	3.0	3.0	축산경영	Livestock Business & Marketing Economics	Mon04-06 1030-1200(동 309), Thur02-04 0930-1100(동309)	Puhazhend hi	English	This course explores how the finance function supports the strategic goals of the agribusiness firm. You will evaluate the financial condition of a firm and reinforce your skills in using the financial tools that enable firms to gain a sustainable competitive advantage or that signal problems in the firm.	Theory	
238	4	전선	3382	식품산업위험분석론	RISK ANALYSIS OF FOOD INDUSTRIAL	3.0	3.0	축산경영	Livestock Business & Marketing Economics	Tue09-14 1300-1600(동309)	Unknown	English	This is an applied class of analyzing the various risk occurred in the agri-food market, including credit risk, business risk, risk management.	Theory	
239	2	전선	3419	식품냉동학	TECHNOLOGY OF FOOD FREEZING	3.0	3.0	축생공	Food Science & Biotechnology of Animal Resources	Mon03-04 1000-1100(동 302), Wed01-04 0900-1100(동302)	민상기	English	Role and method of refrigeration, physicochemical changes of foods occurring during refrigeration, preservation process, and utilization of refrigeration in food industry.	Theory	
240	4	전선	3420	식품물성학	FOOD RHEOLOGY	3.0	3.0	축생공	Food Science & Biotechnology of Animal Resources	Mon03-06 1000-1200(동 321), Wed01-02 0900-1000(동321)	스라마라	English	This lecture provides informations and knowledge about the flow properties of fluid and semifluid foods from colloidal systems. Besides, this course focuses on developing desirable flow properties in fluid foods and structure in gelled systems by using various ingredients	Theory	
241	4	전선	3421	식품위생학	FOOD SANITATION	3.0	3.0	축생공	Food Science & Biotechnology of Animal Resources	Mon09-12 1300-1500(동 302), Thur03-04 1000-1100(동302)	김진만	English	This course is intended to provide general knowledges about the food sanitation. Various factors including microorganism, chemicals, natural toxins and heavy metals will be introduced. All of that can induce serious diseases in human when it is contaminated in food.	Theory	
242	2	전필	2053	식품화학및실험	FOOD CHEMISTRY & LAB	3.0	4.0	축생공	Food Science & Biotechnology of Animal Resources	Tue09-12 1300-1500(동 302), Fri13-16 1500-1700(동302)	만달	English	Food product development, quality assurance, food processing, and biological activities of food components related to the food industry. Chemical change processing transportation, and storage.	Theory+ Practice	
243	2	전필	2054	우유과학	MILK SCIENCE	3.0	3.0	축생공	Food Science & Biotechnology of Animal Resources	Tue01-04 0900-1100(동 302), Thur01-02 0900-1000(동302)	윤여창	English	Effect of milk in health such as mild characteristic and antigenicity of casein and whey protein, decreasing of cholesterol in blood, function of carbohydrate, bioavailability and function of absorption calcium, prevention of osteoporosis,etc	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
244	2	전선	3327	기호학의이해	UNDERSTANDING SEMIOTICS	3.0	3.0	커뮤니케이션	Communication Science	Mon01-03 0900-1030(연구동 408), Tue01-03 0900-1030(연구동 408)	송치만	English	Introduction and application of semiotics in the conditions of communication. Beginning by the basic theories, the course proceeds deepening programs and puts them in practice with the writings, arts, photos, movies, animations, music videos, etc.	Theory	
245	3	전선	3849	데이터통신	DATA COMMUNICATION	3.0	3.0	컴퓨터공	Computer Science & Engineering,	Mon07-09 1200-1330(새 504), Wed10-12 1330-1500(새504)	김기천	English	Introduces data transmission and data communication. Studies interfaces, protocols, data specification for inter-operating communication channels, data transmission techniques, communication equipment	Theory	
246	3	전선	4849	데이터통신	DATA COMMUNICATION	3.0	3.0	컴퓨터공	Computer Science & Engineering,	Mon10-12 1330-1500(새 504), Wed07-09 1200-1330(새504)	김기천	English	Introduces data transmission and data communication. Studies interfaces, protocols, data specification for inter-operating communication channels, data transmission techniques, communication equipment	Theory	
247	4	전선	3861	소프트웨어검증	SOFTWARE VERIFICATION	3.0	4.0	컴퓨터공	Computer Science & Engineering,	Mon09-12 1300-1500(새 602), Wed05-08 1100-1300(새502)	유준범	English	This course introduces formal methods, used to guarantee safety and reliability of safety-critical software, to undergraduate senior students. It consists of formal specification and formal verification. It looks into basic theories of several widely-used ones, and then confirms their features and pros/cons through team projects.	Theory+ Practice	
248	3	전선	3856	소프트웨어모델링및분석	SOFTWARE MODELING AND ANALYSIS	3.0	4.0	컴퓨터공	Computer Science & Engineering,	Mon13-16 1500-1700(새 602), Thu09-12 1300-1500(새602)	유준범	English	This course covers basic concepts of software engineering and software modeling and the modeling language. Students will learn software development process, various software modeling perspectives, modeling languages for overall development process, and modeling development tools. Also, this course covers principles and methodologies for the requirement analysis activity which is the initial step of software development process.	Theory+ Practice	
249	4	전선	3847	특별강좌	SPECIAL LECTURE	3.0	3.0	컴퓨터공	Computer Science & Engineering,	Fri13-18 1500-1800(새602)	서정욱	English	This course covers introductions to the technology trend in information industry	Theory	
250	2	전필	2168	자료구조	DATA STRUCTURE	3.0	3.0	컴퓨터공, 로봇공학	Computer Science & Engineering, Robotics	Mon13-15 1500-1630(새 504), Wed13-15 1500-1630(새504)	하영국	English	Studies the basic concepts of files, file storage devices and I/O control, performance analysis on file structures, and compare various file structures and management techniques. Also covers the organizing skills, file sorts and merges, the inter-relation between file systems and database systems.	Theory	
251	3	전선	3140	구조동역학	INTRODUCTIONS TO STRUCTURAL DYNAMICS	3.0	3.0	토목공학과	Civil Engineering	Mon13-15 1500-1630(공 B564), Wed13-15 1500-1630(공 B564)	하동호	English	The fundamental concepts of statics and dynamics of rigid bodies, force and motion, and equilibrium of forces in plane and space are studied in this subject. This subject will provide sound ground in continuing studies as structural mechanics	Theory	
252	2	전필	2001	기초측량학및실습	BASIC LAND SURVEYING AND EXERCISES	3.0	4.0	토목공학과	Civil Engineering	Tue13-16 1500-1700(공 C385), Thu13-16 1500-1700(공 C385)	어양담	English	This lecture consists of basic concepts of surveying, error theory, geodetic datum, distance/angle measurement, leveling, traverse surveying and the practice of surveying equipments.	Theory+ Practice	
253	4	전선	3148	지하공간공학및설계	TUNNEL ENGINEERING AND DESGIN	3.0	4.0	토목공학과	Civil Engineering	Mon09-12 1300-1500(공 C385), Wed09-12 1300-1500(공 A601)	신중호	ENGLISH	Planning, design and construction of tunnels and underground spaces based on rock mechanics, rock slope stability and rock foundations.	Theory+ Practice	
254	1	전선	3908	생명과학실험1	GENERAL BIOLOGY LAB. 1	1.0	2.0	특성화학부	School of Teuksunghwa(Bio-Konkuk Program)	Wed13-16 1500-1700(농202)	황용식	English	This course provides basic experimental techniques of general biology.	Experiment+ Practice	School of Teuksunghwa(Bio-Konkuk Program) majors only
255	1	전선	3972	생명과학실험1	GENERAL BIOLOGY LAB. 1	1.0	2.0	특성화학부	School of Teuksunghwa(Bio-Konkuk Program)	Fri09-12 1300-1500(농202)	황용식	ENGLISH	This course provides basic experimental techniques of general biology.	Experiment+ Practice	School of Teuksunghwa(Bio-Konkuk Program) majors only

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
256	1	전선	3907	화학실험1	GENERAL CHEMISTRY LAB. 1	1.0	2.0	특성화학부	School of Teuksunghwa(Bio-Konkuk Program)	Tue13-16 1500-1700(농202)	여운석	English	This course provides basic experimental techniques of general Chemistry.	Experiment+Practice	School of Teuksunghwa(Bio-Konkuk Program) majors only
257	1	전선	3971	화학실험1	GENERAL CHEMISTRY LAB. 1	1.0	2.0	특성화학부	School of Teuksunghwa(Bio-Konkuk Program)	Thur13-16 1500-1700(농202)	여운석	English	This course provides basic experimental techniques of general Chemistry.	Experiment+Practice	School of Teuksunghwa(Bio-Konkuk Program) majors only
258	2	지교	0390	공학수학및연습1	ADVANCED ENGINEERING MATHEMATICS 1	3.0	4.0	항공우주정보시스템공학과	Aerospace Information Engineering	Mon17-19 1700-1900(공 B566), Thur17-19 1700-1900(공 B566)	Budyono	English	Mathematical background necessary to study mechanical engineering. Basic differential equation, ordinary linear differential equation, Laplace transform, power series solution, vectors, matrices, and eigenvalue problems.	Theory	
259	3	전선	3265	구조역학및실험	STRUCTURAL MECHANICS AND EXPERIMENT	3.0	3.0	항공우주정보시스템공학과	Aerospace Information Engineering	Tue10-12 1330-1500(공 A209), Thur10-12 1330-1500(공 A403)	윤광준	English	Includes elements of two-dimensional elasticity theory, boundary value problems, energy methods, analyses of solid and thin walled section beams, and monocoque and semimonocoque structures. 2 hour lecture and 1 hour experiment per week.	Theory	
260	3	전선	3264	신호및시스템	SIGNAL AND SYSTEMS	3.0	3.0	항공우주정보시스템공학과	Aerospace Information Engineering	Tue04-06 1030-1200(공별 234), Fri04-06 1030-1200(공별 234)	성상경	English	Introduction to description of signals and systems, continuous and discrete systems, characteristics of linear systems, frequency analysis of continuous and discrete signals, spectrum analysis of random signals, Laplace transformation and application to continuous systems, Z transformation and application to discrete systems, and analog filter design.	Theory	
261	2	전선	3263	유체역학	FLUID MECHANICS	3.0	3.0	항공우주정보시스템공학과	Aerospace Information Engineering	Tue13-15 1500-1630(공별 234), Thur04-06 1030-1200(공 C386)	박수형	English	An introduction to Fluid Mechanics: the properties of fluid, and three methods for the analysis of the fundamental conservation law, including the integral approach for the control volume, the differential approach for the infinitesimal volume, and dimensional analysis for experimental data.	Theory	
262	2	지교	0023	전자기과학	ELECTROMAGNETIC SCIENCE	3.0	3.0	항공우주정보시스템공학과	Aerospace Information Engineering	Mon13-15 1500-1630 (공A209), Wed01-03 0900-1030(공 A209)	박정근	English	It introduces basic concepts and applications of electric and electronic systems, which is necessary to the design, analysis, and fabrication of mechanical systems. It covers electromagnetic field, semiconductor devices, and basic electric and digital circuits.	Theory	
263	4	전선	3271	항공우주소프트웨어	AEROSPACE SOFTWARE	3.0	3.0	항공우주정보시스템공학과	Aerospace Information Engineering	Mon10-12 1330-1500(공 C386), Thur10-12 1330-1500(공 C386)	이정욱	English	This course introduces students to computer software techniques for the solution of aerospace engineering problems.	Theory	
264	3	전선	3269	항공우주형상설계및실습	AEROSPACE CAD AND MODELING	3.0	3.0	항공우주정보시스템공학과	Aerospace Information Engineering	Wed04-06 1030-1200(공별 234), Fri01-03 0900-1030(공 A601)	김상호	English	-Aircraft Configuration Layout and Loft -Flat-Wrap Fuselage Lofting, Circle-to-Square Adapter, Fuselage Loft Verification, Wing/Tail Layout and Loft -Wetted Area Determination, Volume Determination -Special Considerations in Configuration Layout: Aerodynamic Consideration	Theory	
265	4	전선	3275	Micro-system	MICRO-SYSTEM	3.0	3.0	항공우주정보시스템공학과	Aerospace Information Engineering	Mon16-18 1630-1800(공 C386), Wed01-03 0900-1030(공 C386)	변도영	English	This course will introduce recent development of spacecraft and several types of micro-spacecraft. Typically types of micro-propulsion and principles will be studied	Theory	
266	4	전선	3295	비교행정및정책론	COMPARATIVE PUBLIC ADMINISTRATION & POLICY	3.0	3.0	행정학	Public Administration	Wed13-18 1500-1800(상허관 314)	최영철	English	This course aims at contributing to improving objectivity through reviewing various administrative phenomenon in comparative perspective. It deals with administrative practices as well as theories as to various sub-fields in public administration so that in-depth knowledge regarding methodology and epistemology of public administration can be provided for students.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
267	3	전필	2041	재무행정론	FINANCIAL ADMINISTRATION	3.0	3.0	행정학	Public Administration	Wed01-06 0900-1200(상허관 319)	이용모	English	The scope of this class is very wide ranging from budgetary process to budget reform and its effect on national economy. Many best practices of budgetary reform in international perspective are dealt.	Theory	
268	3	전선	3302	정책사례분석	CASE STUDY OF PUBLIC POLICY	3.0	3.0	행정학	Public Administration	Mon10-12 1330-1500(상허관 318), Wed07-09 1200-1330(상허관 318)	이영범	English	This course aims at analyzing practices related to public policy in Korean contexts so that students are able to grasp analytic methodology in the field of public policy.	Theory	
269	2	전선	3296	조사방법론	SOCIAL RESEARCH METHODS	3.0	3.0	행정학	Public Administration	Mon03-08 1000-1300(상허관 314)	유동상	English	Research methods and research designs for public and social affairs. Epistemology of government performance. The whole process of social research method from research design to data collection and analysis.	Theory	
270	2	전선	4029	조사방법론	SOCIAL RESEARCH METHODS	3.0	3.0	행정학	Public Administration	Tue10-12 1330-1500(상허관 318), Thur07-09 1200-1330(상허관 318)	강황선	English	Research methods and research designs for public and social affairs. Epistemology of government performance. The whole process of social research method from research design to data collection and analysis.	Theory	
271	2	전선	3301	행정계량분석1	ADVANCED STATISTICAL ANALYSIS FOR PUBLIC POLICY AND ADMINISTRATION 1.	3.0	3.0	행정학	Public Administration	Mon13-18 1500-1800(상허관 320)	유동상	English	Basic inferential statistics (point and interval estimations, hypothesis testing) and descriptive statistics (measure of central tendency, variation, and bivariate association).	Theory	
272	2	전선	4027	행정계량분석1	ADVANCED STATISTICAL ANALYSIS FOR PUBLIC POLICY AND ADMINISTRATION 1.	3.0	3.0	행정학	Public Administration	Thur13-18 1500-1800(상허관 320)	유동상	English	Basic inferential statistics (point and interval estimations, hypothesis testing) and descriptive statistics (measure of central tendency, variation, and bivariate association).	Theory	
273	3	전선	3303	행정심리분석	ANALYSIS OF ADMINISTRATIVE PSYCHOLOGY	3.0	3.0	행정학	Public Administration	Tue07-09 1200-1330(상허관 318), Thur10-12 1330-1500(상허관 318)	양승범	English	This course introduces psychological theory and research applied to people in the public workplace. Two main branches of applied psychology are discussed. One is personnel psychology. Topics central to personnel psychology include criterion development, psychological assessment, personnel decisions, learning, and performance appraisal. The other branch is organizational psychology. Topics include issues related to cognition, attitudes, motivation, commitment, and emotions. In addition, this course provides an opportunity to examine other fields of psychology applied to the public workplace.	Theory	
274	4	전선	3712	고분자화학	POLYMER CHEMISTRY	3.0	3.0	화학	Chemistry	Thur15-17 1600-1730(01 B107), Fri13-15 1500-1630(01 B102)	표승문	English	Industrial Chemistry A discussion of acids, alkalies, fertilizers, and inorganic chemicals in inorganic industry, and high polymer and organic compounds in organic industry.	Theory	Chemistry majors only
275	4	전선	3717	물리화학특론	TOPICS IN PHYSICAL CHEMISTRY	3.0	3.0	화학	Chemistry	Tue10-12 1330-1500(01 B102), Thur10-12 1330-1500(01 B201)	임찬	English	Topic in Physical Chemistry An introduction of current issues of physical chemistry related to various spectroscopic methods and molecular structure theory.	Theory	Chemistry majors only
276	2	자교	0122	유기화학1	ORGANIC CHEMISTRY I	3.0	3.0	화학	Chemistry	Mon10-12 1330-1500(01 B201), Wed13-15 1500-1630(01 B105)	박용선	English	This course deals with the structure, properties and synthesis of organic compounds. In particular, this course provides the basic knowledge of molecular structure, isomeric effect, reaction mechanism of alkanes, alkenes, alkynes, alcohols and alkyl halides. Furthermore, the concept of electron transfer via induction and resonance effects essential for the understanding of chemical reaction will be also focused. This course is prerequisite for polymer chemistry, organic chemistry experiment and functional polymers.	Theory	Chemistry majors only
277	3	전필	2154	생화학1	BIOCHEMISTRY 1	3.0	3.0	화학, 공통과학	Chemistry	Mon07-09 1200-1330(01 B102), Thur07-09 1200-1330(01 B102)	허홍석	English	This course will covers the topics about the structures and characteristics of carbohydrates, lipid, protein, and nucleic acid.	Theory	Chemistry majors only

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278	2	전선	3198	공업물리화학1	PHYSICAL CHEMISTRY 1	3.0	3.0	화학공학	Chemical Engineering	Mon04-06 1030-1200(공 A204), Wed10-12 1330-1500(공별 232)	민요셉	English	Understanding of fundamental properties of materials using basic laws of unit operation, thermodynamics and reaction engineering such as thermodynamic laws, phase equilibrium, chemical equilibrium, surface thermodynamic and reaction kinetics.	Theory	
279	2	전선	3940	공업물리화학1	PHYSICAL CHEMISTRY 1	3.0	3.0	화학공학	Chemical Engineering	Mon10-12 1330-1500(공 A204), Wed13-15 1500-1630(공별 232)	민요셉	English	Understanding of fundamental properties of materials using basic laws of unit operation, thermodynamics and reaction engineering such as thermodynamic laws, phase equilibrium, chemical equilibrium, surface thermodynamic and reaction kinetics.	Theory	
280	2	전선	3199	공업유기화학1	ORGANIC CHEMISTRY 1	3.0	3.0	화학공학	Chemical Engineering	Tue04-06 1030-1200(공별 232), Fri07-09 1200-1330(공별 232)	이정걸	English	Fundamentals related to organic chemistry and the mechanisms of their reaction to establish the synthetic method and application of organic chemicals.	Theory	
281	2	전선	3941	공업유기화학1	ORGANIC CHEMISTRY 1	3.0	3.0	화학공학	Chemical Engineering	Tue07-09 1200-1330(공별 232), Fri10-12 1330-1500(공별 232)	이정걸	English	Fundamentals related to organic chemistry and the mechanisms of their reaction to establish the synthetic method and application of organic chemicals.	Theory	
282	3	전선	3208	통계학과실험설계	STATISTICS AND EXPERIMENTAL DESIGN	3.0	3.0	화학공학, 디스플레이공학연계	Chemical Engineering(Related to Display Engineering)	Tue10-12 1330-1500(공별 232), Wed07-09 1200-1330(공별 232)	김인원	English	Basic concepts of probability, expectation, random variables, discrete and continuous distributions, and regression.	Theory	
283	1	지교	0013	생물학	BIOLOGY	3.0	3.0	화학생물공	Chemical & Biological Engineering	Fri05-10 1100-1400 (공A204)	Marimuthu	English	This course gives lectures on the basic knowledge of various fields of modern biology including biotechnology and medical engineering. Based on the basic concepts of biological science such as taxonomy, morphology, physiology, embryology, genetics, and ecology, this course introduces molecular biology and genetic engineering.	Theory	
284	1	지교	0200	생물학	BIOLOGY	3.0	3.0	화학생물공	Chemical & Biological Engineering	Fri13-18 1500-1800(공 A204)	Marimuthu	English	This course gives lectures on the basic knowledge of various fields of modern biology including biotechnology and medical engineering. Based on the basic concepts of biological science such as taxonomy, morphology, physiology, embryology, genetics, and ecology, this course introduces molecular biology and genetic engineering.	Theory	
285	2	지교	0388	공학수학및연습1	ADVANCED ENGINEERING MATHEMATICS 1	3.0	4.0	환경공학과	Environmental Engineering	Mon10-13 1330-1530(공 B567), Wed09-12 1300-1500(공 B567)	살라마	English	Mathematical background necessary to study mechanical engineering. Basic differential equation, ordinary linear differential equation, Laplace transform, power series solution, vectors, matrices, and eigenvalue problems.	Theory	
286	3	전필	2029	기초대기확산론	BASIC PRINCIPLES OF ATMOSPHERIC DIFFUSION	3.0	3.0	환경공학과	Environmental Engineering	Thur03-08 1000-1300(공 B567)	우정현	English	Principles of meteorological factors, atmospheric circulation, atmospheric stability, their effect on the dispersion of atmospheric pollutants, and related modeling.	Theory	
287	3	전선	3258	정수공학설계	DESIGN OF WATER TREATMENT FACILITIES	3.0	3.0	환경공학과	Environmental Engineering	Mon05-07 1100-1230(공 A404), Wed10-12 1330-1500(공 A404)	권지향	English	Design and theoretical understanding of environmental processes in potable and industrial water treatment; mainly physical and chemical processes, and reactor configurations commonly used for water quality control; applications to the design of specific water treatment plant operations. Covered: coagulation/sedimentation, filtration, and disinfection as conventional water treatment processes, and adsorption, softening, membrane process, ion exchange, and corrosion control	Theory	
288	1	지교	0414	컴퓨터1	COMPUTER 1	3.0	3.0	환경공학과	Environmental Engineering	Tue03-08 1000-1300(새203)	Diby Paul	English	History of the computer, computer architecture, programming language, and miscellaneous aspects of computer science.	Theory	
289	2	지교	0310	컴퓨터원용설계	ENGINEERING DRAFTING AND CAD	3.0	4.0	환경공학과	Environmental Engineering	Mon04-07 1030-1230(공 1102), Wed04-07 1030-1230(공 1102)	Salama	English	Introduction to the point, line, plane and 3-dimensional structures (such as steet, dam, bridge, water supply and sanitary sewer, storm drain and etc..) understanding and practicing the basic civil design drawins. Complicated civil design drawins.	Theory+ Practice	

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290	4	전선	3252	환경공학설계	ENVIRONMENTAL ENGINEERING DESIGN	3.0	3.0	환경공학과	Environmental Engineering	Mon14-16 1530-1700(공 A404), Wed13-15 1500-1630(공 A404)	김한승	English	Students will be introduced with theoretical and practical aspects of geo-environmental engineering. This course is an integrated part of elemental engineering design courses in the Department of Environmental Engineering. Prior to this course, students are required to take prerequisite elemental engineering design courses for the design of water and wastewater treatment, solid and hazardous waste treatment, etc. (see the Department Program Roadmap). Fundamentals of geo-environment and its contamination characteristics, remediation of contaminated soils and groundwater, and management will be taught and students will design remediation processes for a given contaminated site via design project practise.	Theory	
291	2	전선	3260	환경공학입문설계	INTRODUCTION TO ENVIRONMENTAL ENGINEERING DESIGN	3.0	3.0	환경공학과	Environmental Engineering	Tue04-06 1030-1200(공 A404), Thur04-06 1030-1200(공 A404)	김한승	English	This course covers fundamentals of environmental engineering theory and environmental system engineering design and modeling for water, air, soil, and wastes as well as their applications, based upon principles of engineering system design (e.g., mass balance, mass transfer/transport, single/multi-phase processes, interfacial process, and unit process design and application).	Theory	
292	2	전선	3254	환경미생물학및실험	ENVIRONMENTAL MICROBIOLOGY & LAB.	3.0	4.0	환경공학과	Environmental Engineering	Thur11-18 1400-1800(공 B567)	Diby Paul	English	One of the core lecture prerequisite to the water quality and solid waste engineering major. Fundamentals of microbiology and biochemistry as applied to environmental pollution and treatment processes, energetics and kinetics of microbial growth, biological fate of pollutants. Emphasis is placed on the application of these concepts to biogeochemical cycling, water and wastewater microbiology, pollutant degradation, and microbial ecology. Introduction to laboratory techniques.	Theory+ Practice	
293	4	전선	3255	환경소음·진동및실습	ENVIRONMENTAL NOISE · VIBRATION & LAB.	3.0	3.0	환경공학과	Environmental Engineering	Thur01-06 0900-1200(공 B564)	살라마	English	Principles of concept, characteristics, and effects of environmental noise and vibration, and their origins. Measurement, assessment, and control methods of environmental noise and vibration from various activities. Field study and practical assessment procedure are provided.	Theory	
294	2	전선	3257	환경유체역학및실습	ENVIRONMENTAL FLUID MECHANICS AND PRACTICE	3.0	3.0	환경공학과	Environmental Engineering	Mon01-03 0900-1030(공 A404), Wed01-03 0900-1030(공 A404)	김한승	English	One of the core lecture prerequisite to the environmental engineering major. Fundamentals and practice of fluid mechanics as basic engineering tool for analyzing movement of air and water, representative fluids in environmental engineering. Topics include fluid properties, fundamental equations of fluid, fluid statics and dynamics, laminar and turbulent flow, basic concept of similitude. Also cover fundamental theory of basic hydraulics(pipes and open channel), basic groundwater hydraulics, pump, measurements(velocity, flow rate, energy loss), and introduction to computational fluid dynamics. Provides practice for calculations and designs to strengthen the basic knowledge and to enhance calculation and application capabilities.	Theory	
295	2	지교	0051	경관생태학	LANDSCAPE ECOLOGY	3.0	3.0	환경과학	Environmental Science	Tue07-09 1200-1330(생 453), Thur10-12 1330-1500(생453)	이상우	English	The purpose of this class is to provide opportunities to students fundamental principles of landscape ecology that are mutual relationships between landscape structure, function and changes. In addition, this class covers basic terms, histories, and theories. On broad level, this class also aims to understand dependence of human systems and ecosystems to each other.	Theory	
296	3	전선	3439	육수학	LIMNOLOGY	3.0	3.0	환경과학	Environmental Science	Tue10-12 1330-1500(생 453), Thur07-09 1200-1330(생453)	황순진	English	Covering (1) biogeochemical components and phenomena in freshwater ecosystems including lakes, reservoirs, streams, and wetlands (2) biological components and their function in the food chain (3) matter cycling in aquatic ecosystems (4) applied limnology to cover water quality and ecosystem management.	Theory	

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297	3	전선	3444	환경독성학	ENVIRONMENTAL TOXICOLOGY	3.0	3.0	환경과학	Environmental Science	Tue07-09 1200-1330(생255), Thur10-12 1330-1500(생255)	안윤주	English	Understand the interactions between environmental toxicants and biota, and study the toxicity evaluation methods	Theory	
298	4	전선	3448	환경위해성평가	ENVIRONMENTAL RISK ASSESSMENT	3.0	3.0	환경과학	Environmental Science	Tue10-12 1330-1500(생255), Thur07-09 1200-1330(생255)	안윤주	English	Develop integrated knowledge of disciplines and methodologies for risk assessment	Theory	
299	3	전선	3138	고전히브리어2	BIBLICAL HEBREW 2	2.0	3.0	히브리·중동	Jewish Middle East Studies	Mon04-06 1030-1200(문309), Wed01-03 0900-1030(문309)	최명덕	English	This course teaches a basic grammar of classical(biblical) Hebrew.	Theory	
300	3	전선	3139	원전번역웍샵	WORKSHOP FOR READING HEBREW STORY	3.0	3.0	히브리·중동	Jewish Middle East Studies	Mon17-18 1700-1800(문309), Thur13-16 1500-1700(문309)	최명덕	English	This course teaches how to read ancient hebrew stories.	Theory	
301	2	전선	3132	중근동고고학	ARCHAEOLOGY OF ANCIENT NEAR EAST	3.0	3.0	히브리·중동	Jewish Middle East Studies	Tue01-06 0900-1200(산학111)	임미영	ENGLISH	This course uses original texts and audio-visual materials to enliven the study of historical geography and archaeology of Ancient Near East.	Theory	
302	4	전선	3126	탈무드	TALMUD	3.0	3.0	히브리·중동	Jewish Middle East Studies	Tue04-06 1030-1200(문309), Thur01-03 0900-1030(문309)	최명덕	English	This course teaches the basic concept of Talmud and its historical background, literary feature and the content.	Theory	
303	2	전선	3104	프랑스어1	FRENCH 1	2.0	3.0	EU문화정보	Culture & Information Studies in EU	Mon06-09 1130-1330(문211), Wed11-12 1400-1500(문211)	김동윤	ENGLISH	In this course, students will acquire practical every day French with the basic knowledge of the grammar. This course aims not only at improving speaking skills, but increasing understanding of German culture.	Theory	
304	4	전선	3102	EU컬처코드비교연구	COMPARATIVE STUDIES OF EUROPEAN CULTURE CODES	3.0	3.0	EU문화정보	Culture & Information Studies in EU	Fri01-06 0900-1200(산학211)	오장근	English	This course examines cultural differences and cultural practises in European countries with emphasis on such issues as culture codes.	Theory	
305	2	전선	3095	EU통합과유럽문화	HISTORY OF EUROPEAN UNION AND CULTURE IDENTITY	2.0	2.0	EU문화정보	Culture & Information Studies in EU	Thur09-12 1300-1500(산학217)	김세원	English	A survey of the role of the culture in the history of European Union. This course researches what is the european identy and the vision of EU in the future.	Theory	
306	2	전필	2074	도자재료및기법1	CERAMIC MATERIAL & TECHNIQUE 1	3.0	4.0	공예	Ceramics	Tue03-10 1000-1400(도자공예실2)	이하린	English	Scientific information about ceramic materials and process is presented. Students will do testing in the lab to augment the information presented in lectures. Techniques are presented that are a continuation of those learned in Basic Ceramics 1&2. The technical information learned will be utilized to make creative objects.	Theory+ Practice	
307	4	전선	3508	디지털공예디자인스튜디오 1	DIGITAL CRAFT DESIGN STUDIO 1	3.0	4.0	금속공예	Metalsmith	Thur11-18 1400-1800(금속공예실)	박성현	English	Based on Digital Consumer Product- Form and Structure 1, 2 studio courses experiences, students will produce digital portfolio as their final project. In order to accomplish such a goal, students will expand their experience, knowledge and insight through finding their own identity. Digital Design Studio 2 course is continuation of Digital Design Studio 1 course. Hence, students are encouraged to take courses in sequence.	Experiment+ Practice	
308	2	지교	1501	기초3D컴퓨터애니메이션	BASIC 3D COMPUTER ANIMATION	3.0	4.0	영상	Moving Image	Thur19-22 1815-2115(예221)	이영현	English	This Course provides a focused exploration of 3D Character modeling and animation setup.	Theory+ Practice	Moving image majors only
309	2	전선	1503	기초STOP MOTION애니메이션	BASIC STOP MOTION ANIMATION	3.0	4.0	영상	Moving Image	Tue11-18 1400-1800(예B101)	Jean Poulot	English	This introductory class will focus on stop motion techniques.	Theory+ Practice	Moving image majors only
310	2	전선	3564	기초STOP MOTION애니메이션	BASIC STOP MOTION ANIMATION	3.0	4.0	영상	Moving Image	Wed17-21 1700-2030(예B101)	Jean Poulot	English	This introductory class will focus on stop motion techniques.	Theory+ Practice	Moving image majors only

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311	2	전선	3566	신화와상상력	MYTH & IMAGINATION	3.0	4.0	영상	Moving Image	Mon19-22 1815-2115(예401)	장영란	English	This course will explore an imagination in mythological contend.	Theory+ Practice	Moving image majors only
312	2	전필	2070	애니메이션보기·읽기1	ANIMATION ANALYSIS 1	3.0	4.0	영상	Moving Image	Mon03-10 1000-1400(소극장)	송지현	English	Screening and discussion of films chosen to represent a side range of work.	Theory+ Practice	Moving image majors only
313	3	전선	3581	한국영화사	KOREAN CINEMA HISTORY	3.0	3.0	영화	Film(Movie)	Tue13-18 1500-1800(예412)	김미현	English	Researching the Korean Cinema : Text, Author and History.	Theory	
314	3	전선	3587	CF제작세미나	CF SEMINAR	2.0	3.0	영화	Film(Movie)	Tue01-06 0900-1200(예403)	이재진	English	Understanding Commercial Film's aesthetics, history, text and promotion industry	Theory+ Practice	
315	1	전선	4083	부전공실기1	SECONDARY PERFORMANCE 1	1.0	1.0	음악교육과	Music Education	Fri00 0800-0900 (레슨실D)	김정선	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment+ Practice	
316	2	전선	3659	부전공실기3	SECONDARY PERFORMANCE 3	1.0	1.0	음악교육과	Music Education	Mon19 1815-1900(레슨실D)	최민경	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment+ Practice	
317	3	전선	3660	부전공실기5	SECONDARY PERFORMANCE 5	1.0	1.0	음악교육과	Music Education	Fri19 1815-1900 (레슨실D)	황인아	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment+ Practice	
318	4	전선	4125	부전공실기7	SECONDARY PERFORMANCE 7	1.0	1.0	음악교육과	Music Education	Mon17-18 1700-1800(사311)	이민정	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment+ Practice	
319	4	전필	2518	전공실기7	INDIVIDUAL INSTRUCTION IN THE MAJOR 7	1.0	1.0	음악교육과	Music Education	Thur00 0800-0900(교수연구실-유승공)	유승공	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment+ Practice	
320	1	지교	0060	의복구성1	CLOTHING CONSTRUCTION 1	3.0	4.0	의상디자인	Apparel Design	Tue11-18 1400-1800(예623)	이소영	English	Advanced use of the basic pattern. Includes structure for body styling sleeve.	Theory+ Practice	
321	2	전선	3996	의복디자인1	FASHION DESIGN I	3.0	4.0	의상디자인	Apparel Design	Fri01-08 0900-1300(예621)	고현진	English	Study of basic elements and principles of fashion design, fashion research and analysis, and creating the line by rendering.	Theory+ Practice	
322	2	전선	3521	입체구성1	DRAPING 1	3.0	4.0	의상디자인	Apparel Design	Wed11-18 1400-1800(예622)	박명희	English	Basic bodice, skirt, sleeves, and collars are draped in muslin on the dress form.	Theory+ Practice	
323	3	전선	3523	테일러링	TAILORING	3.0	4.0	의상디자인	Apparel Design	Tue11-18 1400-1800(예620)	김호숙	English	Professional practices of making coat and suits, including construction processes, assembling procedures, decorative details and finishes for tailored garments.	Theory+ Practice	
324	3	전선	3532	패션실무영어2	FASHION BUSINESS ENGLISH2	2.0	3.0	의상디자인	Apparel Design	Thur03-08 1000-1300(예412)	최수연	English	Practices English terms which are important in fashion business and focuses on conversation in the business situations.	Theory+ Practice	
325	3	전선	4023	패션실무영어2	FASHION BUSINESS ENGLISH2	2.0	3.0	의상디자인	Apparel Design	Thur11-16 1400-1700(예412)	최수연	English	Practices English terms which are important in fashion business and focuses on conversation in the business situations.	Theory+ Practice	
326	3	전선	3606	3D그래픽스	3D GRAPHICS DESIGN	3.0	4.0	커뮤니케이션디자인	Communication Design	Fri01-08 0900-1300(예816)	강승록	English	Advanced study on techniques for producing of digital 3D animation including production, theory and application of computer program.	Theory+ Practice	
327	3	전선	4069	3D그래픽스	3D GRAPHICS DESIGN	3.0	4.0	커뮤니케이션디자인	Communication Design	Fri11-18 1400-1800(예816)	강승록	English	Advanced study on techniques for producing of digital 3D animation including production, theory and application of computer program.	Theory+ Practice	
328	1	지교	0059	디지털조형1	BASIC DIGITAL DESIGN 1	2.0	3.0	커뮤니케이션디자인	Communication Design	Thur03-08 1000-1300(새304)	정수연	English	This course focuses on basic understanding of computers as tools for design. Contents include study on hardware and software for design works.	Theory+ Practice	
329	1	지교	0459	디지털조형1	BASIC DIGITAL DESIGN 1	2.0	3.0	커뮤니케이션디자인	Communication Design	Thur11-16 1400-1700(새304)	정수연	English	This course focuses on basic understanding of computers as tools for design. Contents include study on hardware and software for design works.	Theory+ Practice	
330	3	전선	3539	니트디자인2	KNIT 2	3.0	4.0	텍스타일디자인전공	Textile Design	Fri01-08 0900-1300(예520)	김성달, 조배문	English	Students will innovate and challenge new fabric ideas by developing technical skills include linking and steaming, exploring yarns and knit structures using double-bed flat knitting machine. Introduces the subject within the context of industry and commerce: modules include knit product quality control.	Theory+ Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credit	Hour	College /Department (Korean)	College/Department (English)	Time/Location	Professor	Language	Course Description	Course Type	Remarks
331	1	지교	0089	사진과이미지	PHOTO AND IMAGE	2.0	3.0	텍스타일디자인전공	Textile Design	Wed11-16 1400-1700(예403)	강의나	English	Students explore a variety of photographic concepts and imaging techniques to provide understanding of the construction and manipulation of photographic form and meaning.	Theory+ Practice	
332	4	전선	3543	유비쿼터스프로젝트	UBIQUITOUS PROJECT	3.0	4.0	텍스타일디자인전공	Textile Design	Mon11-18 1400-1800(예520)	강성달	English	This course aims to enhance ability to propose creative textile designs in Ubiquitous	Theory+ Practice	
333	1	지교	0062	DESKTOP DESIGN 1	DESKTOP DESIGN 1	2.0	3.0	텍스타일디자인전공	Textile Design	Thur11-16 1400-1700(새303)	홍성숙	English	Through experimentation with various computer software,students will practice design process including idea development and printing.	Theory+ Practice	
334	3	전선	3550	새로운입체1	MIXED MEDIA STUDIES 1	3.0	4.0	현대미술	Contemporary Art	Tue09-16 1300-1700(예308)	박지훈	English	Studying the hybrid Assemblage of Things	Theory+ Practice	
335	3	전선	3551	새로운평면1	IMPROVED TWO DIMENSIONAL STUDIES 1	3.0	4.0	현대미술	Contemporary Art	Wed01-08 0900-1300(예309)	문범	English	Reconstructing the structure of picture plane through various Material	Theory+ Practice	
336	3	전선	3553	웹비디오	WEB VIDIO	3.0	4.0	현대미술	Contemporary Art	Fri09-16 1300-1700(예222)	구자영	English	Training various ways of Web Art	Theory+ Practice	
337	2	전선	4057	입체일반1	THREE-DIMENSIONAL STUDIES 1	3.0	4.0	현대미술	Contemporary Art	Fri01-08 0900-1300(예311)	김지현	English	Training of Three-Dimensional Studies	Theory+ Practice	