

Courses in English

(and in Chinese)

Fall Semester 2014

CENTER FOR INTERNATIONAL FACULTY AND STUDENT SERVICES
OFFICE OF GLOBAL COOPERATION
KONKUK UNIVERSITY

Dear students,

This list is only designed to give you a picture of what classes are available in foreign languages at Konkuk this semester.

This list is current as of August 18, 2014, and changes could have occurred since then.

For example, it is possible that some classes included in this list were cancelled, or switched to Korean-taught classes.

For the most up-to-date details on classes (class time, course plan, syllabus, textbooks, evaluation method etc.), be sure to check <http://kupis.konkuk.ac.kr/sugang>.

For technical assistance, read the *KU HANDBOOK*, or visit the Center for International Faculty and Student Services.

[Notes]

1. Some non-business (economics) classes might be taught only partly in English depending upon the situation of those classes.
2. A "b-learning" class refers to a class where an instructor combines both offline classroom lectures with online materials and activities.

NO	College	Major at Konkuk	Course No.	Course Name	Credits	Day/Period (classroom)	Instructor	Course Description	Course type	Remarks
1		ALL MAJORS	0627	KOREAN LANGUAGE 2	3.0	Mon19-20, Wed19	언어교육원	This course is designed to help you experience the basic aspects of the Korean language and offered for undergraduate-level foreign exchange (Visiting) students only (except students who are Korean-Chinese).	Theory	
2		ALL MAJORS	0628	KOREAN LANGUAGE 2	3.0	Tue19-20, Thu19	언어교육원			
3	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	0320	BUSINESS ENGLISH I	3.0	Fri01-06(경영 204)	조지	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
4	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	0321	BUSINESS ENGLISH I	3.0	Wed13-18(경영 204)	혜인	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
5	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	2348	FINANCIAL MANAGEMENT	3.0	Mon04-06(경영 206), Wed01-03(경영 206)	오세경	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	
6	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3920	BUSINESS ENGLISH 2	3.0	Mon01-06(경영 201)	민병철	Business English 2 prepares students to command effective communication skills in both written and spoken English.	Theory	
7	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3921	BUSINESS ENGLISH 2	3.0	Tue04-09(경영 304)	최은주	Business English 2 prepares students to command effective communication skills in both written and spoken English.	Theory	
8	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3928	ADVERTISING	3.0	Tue01-03(경영 204), Thu04-06(경영 204)	정현수	All the advertising process from the objective setting to the effectiveness measurement of advertisement is illustrated through real cases. The main topic are message, media, creative strategy, copywriting etc.	Theory	
9	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3930	ADVERTISING	3.0	Fri09-14(경영 205)	임동진	All the advertising process from the objective setting to the effectiveness measurement of advertisement is illustrated through real cases. The main topic are message, media, creative strategy, copywriting etc.	Theory	
10	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3932	INTERNATIONAL BUSINESS	3.0	Tue10-12(경영 205), Thu07-09(경영 205)	김주권	International Business aims to help students to have an international perspective on a rapidly changing environment and business caused by globalization. For this purpose, International Business is designed to give students more realistic and practical lessons based on various theories of international business and real world cases.	Theory	
11	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3944	CONSUMER BEHAVIOR	3.0	Mon07-09(경영 304), Wed10-12(경영 304)	이승윤	The course reviews the behaviors that consumers display when purchasing, using, evaluating, and disposing of products and services that they expect will satisfy their needs. The psychological, social, cultural factors and consumer decision making process are main topics.	Theory	
12	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3945	CONSUMER BEHAVIOR	3.0	Mon10-12(경영 304), Wed07-09(경영 304)	이승윤	The course reviews the behaviors that consumers display when purchasing, using, evaluating, and disposing of products and services that they expect will satisfy their needs. The psychological, social, cultural factors and consumer decision making process are main topics.	Theory	
13	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3952	COST ACCOUNTING	3.0	Tue04-06(경영 206), Thu01-03(경영 206)	유상열	Through grounding in cost accounting systems including cost concepts, the flows of costs, cost allocation, job and process costing, and variable product costing.	Theory	
14	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3954	HUMAN RESOURCE MANAGEMENT	3.0	Tue07-09(경영 207), Thu10-12(경영 207)	권기욱	Human Resource are the major contributors to organizational effectiveness and performance. Thus, there is an interdisciplinary approach to understanding these concepts and techniques of effective management : recruiting, training, and performance evaluation, motivation, and various incentive systems.	Theory	
15	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3955	HUMAN RESOURCE MANAGEMENT	3.0	Tue10-12(경영 207), Thu07-09(경영 207)	권기욱	Human Resource are the major contributors to organizational effectiveness and performance. Thus, there is an interdisciplinary approach to understanding these concepts and techniques of effective management : recruiting, training, and performance evaluation, motivation, and various incentive systems.	Theory	

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16	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3956	HUMAN RESOURCE MANAGEMENT	3.0	Mon07-09(경영 201), Wed10-12(경영 201)	오세형	Human Resource are the major contributors to organizational effectiveness and performance. Thus, there is an interdisciplinary approach to understanding these concepts and techniques of effective management : recruiting, training, and performance evaluation, motivation, and various incentive systems.	Theory	
17	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3957	HUMAN RESOURCE MANAGEMENT	3.0	Mon10-12(경영 201), Wed07-09(경영 201)	오세형	Human Resource are the major contributors to organizational effectiveness and performance. Thus, there is an interdisciplinary approach to understanding these concepts and techniques of effective management : recruiting, training, and performance evaluation, motivation, and various incentive systems.	Theory	
18	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	3962	INTERMEDIATE ACCOUNTING 2	3.0	Mon04-06 (경영 3 04), Wed01-03 (경영 3 04)	오준환	This course is designed to educate students in accounting for revenue recognition, lease, income tax, foreign exchange, statement of cash flows, etc. that are not discussed in the course of intermediated accounting 1 based on international financial reporting standards.	Theory	
19	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	4214	INTERMEDIATE ACCOUNTING 2	3.0	Mon01-03 (경영 2 04), Wed04-06 (경영 2 04)	김진욱	This course is designed to educate students in accounting for revenue recognition, lease, income tax, foreign exchange, statement of cash flows, etc. that are not discussed in the course of intermediated accounting 1 based on international financial reporting standards.	Theory	
20	BUSINESS ADMINISTRATION	MANAGEMENT INFORMATIONSYSTEMS	3966	BUSINESS ENGLISH 2	3.0	Tue01-06(경영 3 01)	민병철	As a sequel to Business English I, the goal of this class is to deepen the reading and listening skills by being exposed to various materials related to business operations. The emphasis will be more on effective business communications and reading skills.	Theory	
21	BUSINESS ADMINISTRATION	MANAGEMENT INFORMATIONSYSTEMS	3971	EMERGING TECHNOLOGIES	3.0	Tue13-18(경영 2 03)	서정열	Emerging technological paradigms and standards will be introduced and their implications in IT management.	Theory	
22	BUSINESS ADMINISTRATION	MANAGEMENT INFORMATIONSYSTEMS	3972	BUSINESS PROCESS INOVATION	3.0	Fri07-12(경영 2 03)	이상희	Changes and applications of the business process are getting more important with the information infrastructure. Accordingly, a role of the information technology will be investigated in this course.	Theory	
23	BUSINESS ADMINISTRATION	MANAGEMENT OFTECHNOLOGY	0322	TECHNOLOGY AND SOCIETY	3.0	Mon13-16 (경영 2 07), Thu17-18 (경영 2 07)	박선영	Techological progress has great impact on our society. This impact is positive as well as negative, and will be increasing dramatically as the pace of technological change is accelerated. This course will teach the comprehensive relationship between techological progress and our society. A special focus will be placed on the impact of major technologies (for example, BT, IT, NT, ET) on our society.	Theory	
24	BUSINESS ADMINISTRATION	MANAGEMENT OFTECHNOLOGY	3980	RESEARCH METHODOLOGY OF TECHNOLOGY MANAGEMENT	3.0	Tue13-16(경영 1 02), Fri07-08(경영 2 07)	박선영, 이승현	This course teaches various research and analysis methods and survey techniques, required for surveying and research in technology management. It offers students the opportunity to study not only the quantitative methodology but also the qualitative methodology at the same time so that students can accumulate broad experiences of actual surveys, analyses, and research. Particularly, the course helps students become familiar with practical experiences by participating in current survey and research projects operated by the government, public institutes, or private companies.	Theory	
25	BUSINESS ADMINISTRATION	MANAGEMENT OFTECHNOLOGY	3981	INFORMATION TECHNOLOGY AND MANAGEMENT	3.0	Mon01-03(경영 206), Wed04-06(경영 206)	이영환	This course teaches the characteristics and development trend of information technology as well as the successful management of IT-based firms.	Theory	
26	COMMERCE & ECONOMICS	APPLIED STATISTICS	3409	ECONOMETRICS	3.0	Mon10-12 (상허관 219), Wed07-09 (상허관 219)	유규상	Classical normal linear regression model heteroskedasticity, autocorrelation, multicollinearity, and applied econometric models of micro and macroeconomics.	Theory	
27	COMMERCE & ECONOMICS	APPLIED STATISTICS	3412	NONPARAMETRIC STATISTICS	3.0	Mon01-03 (상허관 219), Wed04-06 (상허관 219)	유규상	Application of rank-order statistics, sign statistics, the empirical distribution function, and runs to commonly occurring data structures. Emphasis on concepts, assumptions, and comparisons to normal theory methods.	Theory	

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28	COMMERCE & ECONOMICS	APPLIED STATISTICS	3413	MATHEMATICAL STATISTICS II	3.0	Fri13-18(상허관 217)	여성철	Intorduction to the concepts of sufficient statistics, likelihood functions, and information numbers. Several methods of estimation, and Bayes estimation, as well as confidence interval methods. Methods of testing hypotheses, such as uniformly most powerful tests and likelihood ratio tests.	Theory	
29	COMMERCE & ECONOMICS	CONSUMER INFORMATIONSCIENCE	3423	RESEARCH METHODOLOGY IN CONSUMER INFORMATION	3.0	Mon04-06(상허관 224), Wed01-03(상허관 224)	양혜경	Theoretical research methodology into all kinds of consumer information related to the consumer value, psychological survey, behavioral research, as a prerequisite for research survey in Consumer Information.	Theory	
30	COMMERCE & ECONOMICS	CONSUMER INFORMATIONSCIENCE	3424	CONSUMER INFORMATION PROJECT 1	2.0	Fri03-10(상허관 224)	류미현, 양혜경, 정석진, 김시월	Through entire coursework, each student group can choose one of best preferred topics so that every team can complete their research output based of market and consumer information survey. This project is a prerequisite for the consumer information project II.	Practicet-Experiment	Consumer information science students only
31	COMMERCE & ECONOMICS	CONSUMER INFORMATIONSCIENCE	3430	CONSUMER AND PRODUCT STRATEGY	3.0	Tue13-18(상허관 220)	정석진	New product strategy focused on consumer will be another aspect of prosumerism. The projection of successful new product for the company and research project for the field work related new product planning will be majorly executed for this class.	Theory	
32	COMMERCE & ECONOMICS	CONSUMER INFORMATIONSCIENCE	3431	POLICY TO ENCOURAGE THE COMPETITIVENESS OF ENTERPRISES AND TO ENSURE THE WELFARE OF THEIR CONSUMERS	3.0	Fri07-12(상허관 222)	이종인	To look into the policy of Korean enterprises in terms of their competitiveness and their consumers. Moreover, enterprises should analyze the synergy effect of the policy on competitiveness and consumers. The enterprises in question should initiate in formulating and implementing productive policy-based measures to ensure their competitiveness and their consumers'welfare.	Theory	
33	COMMERCE & ECONOMICS	CONSUMER INFORMATIONSCIENCE	3432	HITECH MARKET	3.0	Tue07-09(상허관 107), Thu10-12(상허관 107)	정석진	Understanding high-tech environment and industry will be an essential factor in order to build up convergence high-tech marketing strategy. Of convergence phenomena, enhanced level of understanding of service convergence such as broadcasting and network, product convergence such as multimedia portable devices will be achieved.	Theory	
34	COMMERCE & ECONOMICS	CONSUMER INFORMATIONSCIENCE	3433	CONSUMER MARKET ANALYSIS	3.0	Tue10-12(상허관 107), Thu07-09(상허관 107)	정석진	This subject approaches consumer behavior and the economic activities in the preceding cycle before consumption behavior, including production and distribution of products based on the theory of Microeconomics. With general theories related to consumer and market analysis, this subject aims to improve expert knowledge in the area of market analysis through statistical analysis. To take this lecture, basic knowledge on Economic Theories, Basic Statistics and Consumer Economics is required.	Theory	
35	COMMERCE & ECONOMICS	CONSUMER INFORMATIONSCIENCE	3434	CONSUMER CREDIT AND RISK MANAGEMENT	3.0	Mon07-12(상허관 108)	이재형	Learn consumer credit management for the improvement of consumer welfare, the preparation and management of future danger and unexpected economic loss.	Theory	
36	COMMERCE & ECONOMICS	ECONOMICS	3342	INTERNATIONAL MACROECONOMICS	3.0	Mon04-06(상허관 221), Wed01-03(상허관 221)	유재원	"This course examines how balance of payments and exchange rates are determined. Topics to be covered include issues on capital flows and international monetary system."	Theory	
37	COMMERCE & ECONOMICS	ECONOMICS	3346	MACROECONOMIC THEORY	3.0	Mon13-15(상허관 222), Wed16-18(상허관 222)	래프킨	This course introduces the students to the basic principle of static macroeconomic theory, which focuses on the interrelationships between consumers, producers, government and foreign sector and how these collectively impact on the well being of society. The following topics will be covered in class: the general theory of Keynes, Income-Consumption Theory of Keynes, IS/LM Model, IS/LM Model in the open economy, aggregated demand and supply fuction model of inflation, disequili	Theory	
38	COMMERCE & ECONOMICS	ECONOMICS	3363	CURRENT WORLD ECONOMIC ISSUES	3.0	Mon01-03(상허관 221), Wed04-06(상허관 221)	래프킨	This course requires some prior knowledge of economic theories. Students are required to read some articles from leading journals and newspapers and find how to apply economic issues. Course requirements include presentations and discussion with the instructor and with other students.	Theory	

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39	COMMERCE & ECONOMICS	ECONOMICS	3364	CURRENT WORLD ECONOMIC ISSUES	3.0	Mon07-09 (상허관 221), Wed10-12 (상허관 221)	래프킨	This course requires some prior knowledge of economic theories. Students are required to read some articles from leading journals and newspapers and find how to apply economic issues. Course requirements include presentations and discussion with the instructor and with other students.	Theory	
40	COMMERCE & ECONOMICS	ECONOMICS	3365	TECHNICAL ANALYSIS OF THE FINANCIAL MARKETS AND INVESTMENTS	3.0	Tue01-03 (상허관 108), Thu04-06 (상허관 108)	김대환	This course covers portfolio theories, asset pricing models, the term-structure models, and the behavior of financial institutions and financial markets of various countries including Korea. The course also offers statistical analysis of financial market behaviours using recently developed time series econometric methods. Each part covers financial applications, and require real data handling using some softwares.	Theory	
41	COMMERCE & ECONOMICS	ECONOMICS	3368	INTERMEDIATE MACROECONOMICS	3.0	Tue10-12 (상허관 221), Thu13-15 (상허관 221)	김원중	This course presents the intermediate-level macroeconomic theory and applications. Theories on economic growth, business cycle, and money and banking system are examined. Macroeconomic policy, financial crisis, open-economy macroeconomic issues are discussed as well	Theory	
42	COMMERCE & ECONOMICS	ECONOMICS	3369	FINANCE AND MACROECONOMY	3.0	Tue07-09 (상허관 218), Thu10-12 (상허관 218)	미배정	This course studies the role of financial system in the macroeconomy. Topics include the nexus between finance and economic growth, effects of financial liberalization and globalization, the cause of frequent and devastating financial crises, policy responses to crises, and macroprudential regulations to prevent crises	Theory	
43	COMMERCE & ECONOMICS	ECONOMICS	4180	WELFARE ECONOMICS	3.0	Tue01-03 (상허관 221), Thu04-06 (상허관 221)	래프킨	This course discusses the issues of existence, stability, efficiency and equity of economics equilibrium, introduces the theory of social choice and problems created by market failure (public goods, externalities, and uncertainty), and analyzes the policy against market failure.	Theory	
44	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	0113	INTERNATIONAL TRADE AND BUSINESS	3.0	Tue10-12 (상허관 220), Thu07-09 (상허관 220)	장동한	From the viewpoint of a business who is seeking for maximization of its firm value, it is to study practical issues of international business including international marketing, and international investment & financing.	Theory	B-learning
45	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3371	MACROECONOMICS	3.0	Mon04-06 (상허관 218), Wed01-03 (상허관 218)	송승훈	Deals with the basic concepts of macroeconomic theory, including economic growth and business cycles, and provides an introduction to open economy macroeconomics.	Theory	
46	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3372	INTERNATIONAL MARKETING	3.0	Tue04-06 (상허관 106), Thu01-03 (상허관 106)	세르반테스	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	
47	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3378	INTERNATIONAL TRADE THEORY	3.0	Tue04-06 (상허관 224), Thu01-03 (상허관 224)	이흥구	Introduces students to the basic concepts of trade theory such as trade patterns, gains from trade, and international factor mobility. The course also deals with the types of trade impediments, their effects on resource allocation and welfare, and possible remedies for reducing their distortional effects.	Theory	
48	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3381	INTERNATIONAL CORPORATE FINANCE	3.0		장동한	Acquaints students with various aspects of international financing, ranging from the operation of international financial market to the arcane technique of pricing financial assets in the global markets.	Theory	cancelled
49	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3383	INTERNATIONAL COMMERCIAL RELATIONS	3.0	Mon07-09 (상허관 107), Wed10-12 (상허관 107)	레데스마	Identifies characteristic features of Korea's commercial relations with its major trading partners as they are influenced by the ever changing global trading environment.	Theory	
50	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3388	INTERNATIONAL BUSINESS COMMUNICATIONS	3.0		황해두	Introduces students to the making of business communication materials by providing the methods of preparing letters of credit, bills of lading, and so forth.	Theory	cancelled
51	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3395	THEORIES OF GLOBAL BUSINESS STRATEGIES	3.0	Tue10-12 (상허관 222), Thu07-09 (상허관 222)	송승훈	Introduces theories related to the emergence of multinational corporations, corporate strategies, and ordinance structures.	Theory	

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52	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3396	THE UNITED STATES AND THE EUROPEAN ECONOMIES	3.0	Tue01-03 (상허관 220), Thu04-06 (상허관 220)	이홍구	Analyzes the trends and characteristics of trade and investment in the United States and the Europe, their trade policies and dispute settlement mechanisms, and other related issues.	Theory	
53	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3400	ECONOMIC INTEGRATION	3.0	Fri01-06(상허관 221)	표옥연	Focuses on the various forms of regional economic integration and their implications.	Theory	
54	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3404	GLOBALIZATION AND FINANCIAL INTEGRATION	3.0	Mon10-12 (상허관 107), Wed07-09 (상허관 107)	레테스마	It is designed to enhance the students' understanding of the current economic and political issues that arise in the context of international relations.	Theory	
55	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	3405	GLOBALIZATION AND FINANCIAL INTEGRATION	3.0	Mon04-06 (상허관 107), Wed01-03 (상허관 107)	세르반테스	It is designed to enhance the students' understanding of the current economic and political issues that arise in the context of international relations.	Theory	
56	COMMERCE & ECONOMICS	INTERNATIONAL TRADE	4189	INTERNATIONAL MARKETING RESEARCH	3.0	Mon04-06 (상허관 101), Wed01-03 (상허관 101)	남경두	Teaches how to do international marketing research, how to deal with primary and secondary data available, how to collect and analyze data, and how to take advantage of Internet trade research.	Theory	
57	POLITICAL SCIENCE	POLITICAL SCIENCE	3297	MASS MEDIA & POLITICS	3.0	Tue07-12 (상허관 314)	최은창	Review on the role of Mass Media, in particular, in the political processes such as election and policy-making.	Theory	
58	POLITICAL SCIENCE	POLITICAL SCIENCE	3300	WAR AND PEACE IN WORLD POLITICS	3.0	Mon07-09 (상허관 316), Wed10-12 (상허관 316)	윤태룡	Korean foreign policy from the end of World War II to the present, dealing with the history of foreign policy decision-making process, political culture, leadership, and democratization in Korea. An advanced course that requires students to have prior knowledge of the basic and analytic concepts of political science.	Theory	
59	POLITICAL SCIENCE	POLITICAL SCIENCE	3303	MODERN SOCIETY AND PARTIES	3.0	Tue13-16 (상허관 318), Fri07-08 (상허관 318)	김성연	A better understanding of modern political parties in comparative perspective. Nature, structure, and function of political parties and formation and transformation of party systems in Korea and other countries.	Theory	
60	POLITICAL SCIENCE	POLITICAL SCIENCE	3305	MAIN FIGURES IN DIPLOMATIC HISTORY	3.0	Thu07-12 (상허관 320)	김용민	Studies of the lives of the main figures in diplomatic history, their diplomatic goals, the specialities of the actions, their successes, failures and the results.	Theory	
61	POLITICAL SCIENCE	POLITICAL SCIENCE	4176	ADVANCED STUDIES OF POLITICAL THOUGHTS	3.0	Thu01-06 (상허관 320)	미배정	The historical backgrounds, the main concepts, the key points and the modern meanings of the specific political thoughts are examined.	Theory	
62	POLITICAL SCIENCE	PUBLIC ADMINISTRATION	2049	THEORIES OF PUBLIC POLICY	3.0	Mon04-06 (상허관 318), Wed01-03 (상허관 318)	정이윤	This course is designed to teach the general theories of public policy covering policy planning, policy making, implementation and analysis & evaluation. It discusses both overall picture of theories and practices of public policy for undergraduate students to grasp broad concept of public policy process in the public sector.	Theory	
63	POLITICAL SCIENCE	PUBLIC ADMINISTRATION	2050	THEORIES OF PUBLIC POLICY	3.0	Tue07-09 (상허관 319), Thu10-12 (상허관 319)	정이윤	This course is designed to teach the general theories of public policy covering policy planning, policy making, implementation and analysis & evaluation. It discusses both overall picture of theories and practices of public policy for undergraduate students to grasp broad concept of public policy process in the public sector.	Theory	
64	POLITICAL SCIENCE	PUBLIC ADMINISTRATION	3312	ADMINISTRATIVE PUBLIC RELATIONS	3.0	Fri13-18 (상허관 320)	이도석	Opinion formation, administrative and political communication systems, impact of news media, propaganda, and methods, including opinion surveys and content analysis.	Theory	
65	POLITICAL SCIENCE	REAL ESTATE STUDIES	0398	PRINCIPLES OF REAL ESTATE SCIENCE	3.0	Wed13-15 (상허관 317), Thu13-15 (상허관 317)	신승우	As a second course of introduction to real estate, the principles of real estate analysis and utilization are introduced. Subjects include market analysis and the determinants of real estate values, the appraisal process, investment and financial analysis, and the public aspects of real estate planning and utilization.	Theory	
66	POLITICAL SCIENCE	REAL ESTATE STUDIES	2051	REAL ESTATE DEVELOPMENT	3.0	Mon04-06 (상허관 317), Wed01-03 (상허관 317)	이현석	Practice in real estate development and management through the management and propriety analysis of the project.	Theory	

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67	POLITICAL SCIENCE	REAL ESTATE STUDIES	2052	REAL ESTATE DEVELOPMENT	3.0	Mon01-03 (상허관 317), Wed04-06 (상허관 317)	이현석	Practice in real estate development and management through the management and propriety analysis of the project.	Theory	
68	POLITICAL SCIENCE	REAL ESTATE STUDIES	3330	REAL ESTATE INVESTMENT	3.0	Mon01-03 (상허관 109), Wed04-06 (상허관 109)	심교언	Decision theories in real estate investment, in order to maximize the return on real estate investment.	Theory	
69	POLITICAL SCIENCE	REAL ESTATE STUDIES	3331	REAL ESTATE INVESTMENT	3.0	Mon16-18 (상허관 314), Tue16-18 (상허관 314)	노승한	Decision theories in real estate investment, in order to maximize the return on real estate investment.	Theory	
70	POLITICAL SCIENCE	REAL ESTATE STUDIES	3333	FINANCIAL MANAGEMENT	3.0	Tue13-15 (상허관 314), Thu13-15 (상허관 314)	판강지	Financial decision-making of a corporation is covered. Analytical techniques for solving financial problems are also examined. Financial decisions such as investing in fixed assets, obtaining debt and equity funds, and determining the proper amount of working capital are examined.	Theory	
71	POLITICAL SCIENCE	REAL ESTATE STUDIES	3335	REAL ESTATE FACILITY MANAGEMENT	3.0	Mon07-09 (상허관 317), Tue04-06 (상허관 317)	이상엽	The class intends to help students to learn the concept of real estate facility, the facility management, the definition of related work activities, and procedure of facility management for the minimization of life cycle cost and maximization of facility value. The contents of class includes the introduction of facility management system (FMS) including the property and asset management, the maintenance and rehabilitation activities in facility management, the management information systems and data management, and the implementation of FMS based on case studies.	Theory	
72	POLITICAL SCIENCE	REAL ESTATE STUDIES	3337	RESIDENTIAL MORTGAGE FINANCING	3.0	Mon10-12 (상허관 109), Wed10-12 (상허관 109)	고성수	Cultivation of practical knowledge that aids in investment decisions. Basic theories of real estate financial analysis and capital market.	Theory	
73	POLITICAL SCIENCE	REAL ESTATE STUDIES	3338	REAL ESTATE DERIVATIVES	3.0	Mon16-18 (상허관 317), Wed16-18 (상허관 317)	신승우	This consists of three subsections: real estate derivatives, real estate portfolio management and real estate securitization. Real estate derivatives include options, futures and swap agreement. Real estate portfolio management deals with managing portfolio of real estate assets, stocks and fixed income securities in the perspectives of institutional investors and private bankers. Lastly real estate securitization is about MBS, CMBS, ABS and REITs.	Theory	
74	POLITICAL SCIENCE	REAL ESTATE STUDIES	3341	GLOBAL REAL ESTATE MARKETS	3.0	Tue04-06 (상허관 314), Thu04-06 (상허관 314)	판강지	The global real estate market is growing rapidly as the Korean domestic market has been saturated and government has improved investment conditions. This consists of two subsections: The U.S. real estate market and the Great Chinese real estate market inclusive of Hong Kong and Singapore. This course will cover the history of each market, ownership system, urbanization process, supply and demand system, housing finance system, and investment procedures.	Theory	
75	LIBERAL ARTS	DIGITAL CULTURE & CONTENTS	3090	THE WORLD OF STORYTELLING	3.0	Wed13-18(문 209)	이주은	This is a learning course about the theories of storytelling with the digital contents, regarded as the core to create the cultural contents, establishing the basis for the creative works of the cultural contents by means of exercising the storytelling and analyzing them on details.	Theory	
76	LIBERAL ARTS	DIGITAL CULTURE & CONTENTS	3094	INTERNSHIP OF PLANNING AND PRODUCING CULTURAL CONTENTS	3.0	Fri07-14(문 209)	이병민	Internship of Planning and Producing Cultural Contents	Practice+Experiment	
77	LIBERAL ARTS	DIGITAL CULTURE & CONTENTS	3095	SOCIAL MEDIA CONTENTS	2.0	Thu09-12(문 302)	정의준	Studies on character, background, influence, and ethic of social media. Applications of the social media on industries will be presented by the experts in the field of social media marketing. There will be individual studies on leading social media such as Face Book, Wiki, Google and etc.	Theory	

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78	LIBERAL ARTS	DIGITAL CULTURE & CONTENTS	4196	RESEARCH ON CULTURAL MARKETING	3.0	Tue01-06(문 306)	한경아	This aims at the comprehensive understanding of the business in the cultural contents, examining and analyzing accurately the actual cases in the marketings of cultural contents as well as finding its right direction to be forward progressively.	Theory	
79	LIBERAL ARTS	DIGITAL CULTURE & CONTENTS	4197	UNDERSTANDING TO GLOBAL CULTURE	2.0	Wed03-06(문 209)	양은희	This s a systematic study on the global cultures in a comprehensive method and viewpoint in order to develop the appreciative eye on the global contents beyond Korean culture.	Theory	
80	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	0012	BASIC ENGLISH WRITING	3.0		도티	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	
81	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	0013	BASIC ENGLISH WRITING	3.0	Mon04-06(문 213), Wed01-03(문 213)	도티	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	
82	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	0014	BASIC ENGLISH WRITING	3.0	Mon10-12(문 213), Wed07-09(문 213)	도티	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	
83	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	0015	BASIC ENGLISH WRITING	3.0	Mon01-03(문 304), Wed04-06(문 304)	라이언	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	
84	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	0016	BASIC ENGLISH WRITING	3.0	Mon04-06(문 211), Wed01-03(문 211)	라이언	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	
85	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3020	AMERICAN CULTURE AND MOVIES	3.0	Wed13-18(문 213)	이형식	Introduction to study of popular films as narrative form and cultural product. Overview of the musical, comedy, western. Analysis of film stars, history of film technology and study of audience.	Theory	
86	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3022	BRITISH/AMERICAN LITERATURE & POPULAR CULTURE	3.0	Tue13-18(문 208)	김은형	This course explores the mutual influences of British-American literature and mass culture. Exemplar texts could be Harry Potter or Lord of the Rings in both film and fiction version.	Theory	
87	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3028	ENGLISH DEBATE & PUBLIC SPEAKING	3.0	Tue01-03(문 213), Thu04-06(문 213)	도티	This class is designed to improve students' oral proficiency in debating on various current issues, and to train students to develop their ability of public speaking for effective presentations before audience.	Theory	
88	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3029	ENGLISH DEBATE & PUBLIC SPEAKING	3.0	Tue04-06(문 213), Thu01-03(문 213)	도티	This class is designed to improve students' oral proficiency in debating on various current issues, and to train students to develop their ability of public speaking for effective presentations before audience.	Theory	
89	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3030	ENGLISH DEBATE & PUBLIC SPEAKING	3.0	Tue01-03(문 211), Thu04-06(문 211)	라이언	This class is designed to improve students' oral proficiency in debating on various current issues, and to train students to develop their ability of public speaking for effective presentations before audience.	Theory	
90	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3031	ENGLISH DEBATE & PUBLIC SPEAKING	3.0	Tue04-06(문 211), Thu01-03(문 211)	라이언	This class is designed to improve students' oral proficiency in debating on various current issues, and to train students to develop their ability of public speaking for effective presentations before audience.	Theory	
91	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3032	ENGLISH DEBATE & PUBLIC SPEAKING	3.0	Mon10-12(문 211), Wed07-09(문 211)	라이언	This class is designed to improve students' oral proficiency in debating on various current issues, and to train students to develop their ability of public speaking for effective presentations before audience.	Theory	
92	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3034	ENGLISH INTERPRETATION	3.0	Thu13-18(문 213)	김덕래	Students are provied with theories and principles of interpretation, and they practice various skills of English interpretation.	Theory	

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93	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3035	INTRODUCTION TO APPLIED ENGLISH LINGUISTICS	3.0	Tue07-09(문 208), Fri04-06(문 213)	권나영	Introduction to basic concepts in applied English linguistics: psycholinguistics, sociolinguistics, language acquisition, and computational linguistics.	Theory	
94	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3036	INTRODUCTION TO APPLIED ENGLISH LINGUISTICS	3.0	Tue13-15(문 213), Fri13-15(문 208)	권나영	Introduction to basic concepts in applied English linguistics: psycholinguistics, sociolinguistics, language acquisition, and computational linguistics.	Theory	
95	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3037	ENGLISH GRAMMAR	3.0	Mon07-09(문 211), Wed04-06(문 208)	안덕호	A pedagogical grammar of English that deals with those practical items that a student must know to be able to use English at intermediate and advanced levels: approached from the viewpoint of structural linguistics, as adopted by Quirk and others.	Theory	
96	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3038	ENGLISH GRAMMAR	3.0	Mon13-15(문 213), Wed13-15(문 211)	안덕호	A pedagogical grammar of English that deals with those practical items that a student must know to be able to use English at intermediate and advanced levels: approached from the viewpoint of structural linguistics, as adopted by Quirk and others.	Theory	
97	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3039	AMERICAN NOVEL	3.0	Mon07-09(문 208), Wed01-03(문 208)	김은형	This course covers important American novels from Nathaniel Hawthorne, Herman Melville to Scott Fitzgerald, William Faulkner and contemporary Asian-American writers.	Theory	
98	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3040	INTRODUCTION TO ENGLISH LITERATURE 2	3.0	Mon10-12(문 208), Wed16-18(문 211)	강형민	This course surveys major topics, authors, and genres of the Romantic era, the Victorian age, the Twentieth century in British literature by reading representative works.	Theory	
99	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3041	INTRODUCTION TO ENGLISH LITERATURE 2	3.0	Mon16-18(문 213), Wed10-12(문 213)	강형민	This course surveys major topics, authors, and genres of the Romantic era, the Victorian age, the Twentieth century in British literature by reading representative works.	Theory	
100	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3043	ENGLISH SEMANTICS AND PRAGMATICS	3.0	Tue07-09(문 213), Thu10-12(문 213)	안희돈	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	
101	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3044	PRACTICE IN ENGLISH APPLIED LINGUISTICS	3.0	Fri13-18(문 213)	신정화	This is a practice course to applied linguistics. Students study basic linguistic theories and learn how to analyze various types of English text and discourse using computer programs and basic methods that have been widely used in the field of computational linguistics.	Theory	
102	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	3045	BRITISH NOVEL 2	3.0	Fri07-12(문 304)	노경은	Students read several British novels, which usually constitute the canon in the history of the novel, with a focus on a specific theme, such as modernity, Bildungsroman, imperialism, or feminism.	Theory	
103	LIBERAL ARTS	ENGLISH LANGUAGE & LITERATURE	4215	ENGLISH GRAMMAR	3.0	Tue10-12(문 208), Thu16-18(문 211)	안덕호	A pedagogical grammar of English that deals with those practical items that a student must know to be able to use English at intermediate and advanced levels: approached from the viewpoint of structural linguistics, as adopted by Quirk and others.	Theory	
104	LIBERAL ARTS	MEDIA & COMMUNICATION	3113	INTRODUCTION TO LANGUAGE COMMUNICATION	3.0	Mon04-06(문 304), Wed01-03(문 304)	홍우평	Understanding of the psychological processes which underlie the usage of words in language communication. Hypotheses and theories concerning how the sound, structure, and meaning of words are represented in the mind/brain, and how these informations are retrieved in the course of speech communication are introduced and evaluated.	Theory	
105	LIBERAL ARTS	MEDIA & COMMUNICATION	3121	PR COMMUNICATION	3.0	Mon10-12(문 304), Wed07-09(문 304)	전형연	We tried to understand the concept and formulas that are essential for Public Relation strategy process and management.	Theory	
106	LIBERAL ARTS	MEDIA & COMMUNICATION	3123	ADVERTISING PLANNING	3.0	Tue10-12(문 304), Thu07-09(문 304)	김유정	This course offers students basic concepts and processes in advertising planning to produce effectively various advertising.	Theory	
107	EDUCATION	EDUCATIONAL TECHNOLOGY	2218	LEARNING THEORY IN INSTRUCTIONAL TECHNOLOGY	3.0	Wed03-08 (사 327/328)	박성열	The course examines principles of instructional design by analyzing different instructional system models, with a special emphasis on a systematic approach to instruction.	Theory	

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108	EDUCATION	EDUCATIONAL TECHNOLOGY	3816	RESEARCH METHODS AND TRENDS IN EDUCATIONAL TECHNOLOGY	3.0	Mon11-14(경영 103), Wed03-04(사 312)	임결	This course understands the movement of study and examines main issues of practical and theoretical study in the filed of educational technology.	Theory	
109	EDUCATION	EDUCATIONAL TECHNOLOGY	3817	VIRTUAL REALITIES FOR LEARNING	3.0	Thu03-08(사 301)	김미화	With emerging technologies, virtual reality and augmented reality are ones of the alternative learning methods in education. Based on understanding of the concepts of virtual and augmented realities, This class searches for world-class tools, webpages, and devices for virtual and augmented realities. Also, students draws strategies for learning practices of the realities.	Theory	
110	EDUCATION	ENGLISH EDUCATION	2215	TEACHING READING AND WRITING IN ENGLISH	3.0	Mon07-08(사 112), Tue13-16(사 112)	조정순	The course provides insights into the theory of teaching reading and writing with particular emphasis on the problems faced by students.	Theory+Practice	
111	EDUCATION	ENGLISH EDUCATION	2216	TESOL PRACTICUM 1	3.0	Tue07-09(사 112), Thu10-12(사 112)	임인재	Students applies the principles of effective English teaching in both controlled and free teaching situations. Students practices their teaching skills using their classmates as students.	Theory+Practice	
112	EDUCATION	ENGLISH EDUCATION	3799	ADVANCED ENGLISH COMPOSITION	3.0	Wed12-15(사 112), Fri08-11(사 112)	크리스찬김	This course helps students use their knowledge of paragraph construction to write longer works. They also practice summarizing and writing short answers to test questions.	Practice+Experiment	English education students only
113	EDUCATION	ENGLISH EDUCATION	3800	SURVEY OF BRITISH LITERATURE	3.0	Wed13-18(사 218)	박재영	This course introduces the background and the beginnings of English literature and a chronological genre survey of English literature with reference to major authors.	Theory	
114	EDUCATION	ENGLISH EDUCATION	3801	THEORIES IN TEACHING ENGLISH AS A FOREIGN LANGUAGE	3.0	Mon13-16(사 112), Thu17-18(사 112)	조정순	This course provides a comprehensive survey of basic concepts, theories, and principles of English language learning and teaching.	Theory	
115	EDUCATION	ENGLISH EDUCATION	3804	ENGLISH CONVERSATION 2	3.0	Wed08-11(사 112), Fri12-15(사 112)	크리스찬김	The course trains the students to be able to carry out intermediate-level everyday conversation and simple discussion.	Practice+Experiment	English education students only
116	EDUCATION	ENGLISH EDUCATION	3806	ESSAY WRITING IN ENGLISH	3.0	Wed04-07(사 112), Fri04-07(사 112)	크리스찬김	This course is an introduction to the theory and practice of English writing for academic purpose. Students are given opportunities to work on their own writings of various research topics and get feedbacks both from peers and the instructor.	Practice+Experiment	English education students only
117	EDUCATION	ENGLISH EDUCATION	3807	TESOL PRACTICUM 3	3.0	Tue10-12(사 112), Thu07-09(사 112)	임인재	Students will learn and practice various observation schemes and apply to their own teaching and peer observation in preparation for the national teacher certificate exam.	Theory+Practice	
118	EDUCATION	ENGLISH EDUCATION	4171	ENGLISH SYNTAX	3.0	Thu17-18(사 218), Fri13-16(사 218)	이우승	This course is designed to introduce a lively and up-to-date theory of transformational grammar. Students are expected to acquire syntactic knowledge of English through solving many types of exercises.	Theory	
119	EDUCATION	MATHEMATICS EDUCATION	3740	TOPOLOGY II	3.0	Mon01-03(사 216), Wed04-06(사 216)	문명호	As a continuation of General Topology I, this course covers compact space, locally compact space, connectedness, quotient space, net and filter, product, and topology.	Theory	
120	EDUCATION	MATHEMATICS EDUCATION	3743	TOPICS IN HIGH SCHOOL ALGEBRA 1	3.0	Tue10-12(사 201), Thu10-12(사 201)	최상기	This course focuses on teaching methods of high school algebra. It also provides theoretical background of high school algebra such as primes, irreducibles, fundamental theorem of algebra, unique factorization domain, Euclidean domain, rational zene theorem, remainder theorem, Hauss lemma etc.	Theory	
121	EDUCATION	MATHEMATICS EDUCATION	3744	ANALYSIS II	3.0	Mon04-06(사 216), Wed01-03(사 216)	문명호	Power series, uniform convergence, Stone-Weierstrass theorem, Fourier series, Gamma function, inverse function theorem, and implicit function theorem.	Theory	
122	EDUCATION	MUSIC EDUCATION	3771	DICTION	1.0	Tue07-10(사 311)	이윤숙	Singing in German, Italian, French and English with correct pronunciation for better understanding of the text.	Practice+Experiment	
123	EDUCATION	MUSIC EDUCATION	3772	SECONDARY PERFORMANCE 2	1.0	Wed17-18(레슨실 A)	김윤지	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
124	EDUCATION	MUSIC EDUCATION	3773	SECONDARY PERFORMANCE 2	1.0	Wed15-16(레슨실 A)	노지영	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	

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125	EDUCATION	MUSIC EDUCATION	3774	SECONDARY PERFORMANCE 2	1.0	Wed17-18(레슨실 D)	한성민	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
126	EDUCATION	MUSIC EDUCATION	3775	SECONDARY PERFORMANCE 4	1.0	Thu17-18(레슨실 C)	김윤지	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
127	EDUCATION	MUSIC EDUCATION	3776	SECONDARY PERFORMANCE 4	1.0	Wed17-18(레슨실 C)	유순영	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
128	EDUCATION	MUSIC EDUCATION	3778	SECONDARY PERFORMANCE 6	1.0	Wed15-16(레슨실 B)	이지현	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
129	EDUCATION	MUSIC EDUCATION	3779	SECONDARY PERFORMANCE 6	1.0	Wed15-16(레슨실 D)	김란도	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
130	EDUCATION	MUSIC EDUCATION	3781	SECONDARY PERFORMANCE 8	1.0	Wed17-18(레슨실 E)	노희재	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
131	EDUCATION	MUSIC EDUCATION	3782	CHAMBER MUSIC 2	1.0	Fri07-10 (교수연구실-이민정)	이민정	Study and performance of literature for piano and other instruments, including such works as violin sonatas, trios, quartets. Musicianship is learned through developing ensemble skill.	Practice+Experiment	
132	EDUCATION	MUSIC EDUCATION	4174	SECONDARY PERFORMANCE 2	1.0	Wed17-18(레슨실 B)	임지희	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
133	EDUCATION	MUSIC EDUCATION	4175	SECONDARY PERFORMANCE 4	1.0	Fri00 (교수연구실-이민정)	이민정	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Practice+Experiment	
134	EDUCATION	PHYSICAL EDUCATION	3751	GYMNASTICS II	1.0	Fri05-08(체육관 B)	김윤지	Training in techniques of the heavy gymnastics sports and development of physical strength, such as muscular strength, endurance, agility, and flexibility.	Practice+Experiment	
135	EDUCATION	PHYSICAL EDUCATION	3752	BASKETBALL	1.0	Wed09-12(체육관 B)	진승모	Helps the students to work smoothly in a group by commanding their individual skills or techniques. Development of skills in offense and defense and the appropriate control of the ball in a speedy movement.	Practice+Experiment	
136	EDUCATION	PHYSICAL EDUCATION	3759	RESEARCH METHODS IN PHYSICAL EDUCATION	2.0	Fri03-06(체육관 A)	권택용	A research target of physical education are a physical action or human movement, comprehensive science to apply all existing studies. 'Research methods in Physical Education' is one kind of physical educations, and it is a study about quantitative and qualitative methodologies to solve a problem in the spot of sports and to create a theory. Main contents are physical education, an overview of research methods in physical education, a typical research method, an example of practical research and the outline of drawing up a thesis.	Theory	
137	EDUCATION	PHYSICAL EDUCATION	3761	ADAPTED PHYSICAL ACTIVITY & EXERCISE	2.0	Thu17-19(체육관 A)	김지태	This course consists of definition, history, law, and inclusion of adapted physical education. Also this makes students notice the classification of disability types and characteristics of behavior of people with all kinds of disability. Above all, this has an important goal to let students improve their own ability to apply these knowledge's into adapted physical program by practice more than third times one semester.	Theory	
138	EDUCATION	PHYSICAL EDUCATION	3762	NEW SPORTS	1.0	Thu03-06(체육관 C)	권택용	Because Various group members appear in a modern society unlike past, diversity of desire happens as well. For example, popularization phenomenon about new sports such as in-line skating, in-line hockey, snowboard and artificial rock climbing can explain why diversity of desire comes out. Accordingly, we experience and learn a culture of these sports by introducing new sport events.	Practice+Experiment	
139	EDUCATION	PHYSICAL EDUCATION	3764	WATER SAFETY AND FIRST AID	1.0	Tue05-08(체육관 B)	권택용	If slight wounds are not taken care of by suitable safety and emergency action, wounds can get worse even in danger of a crisis. Our surrounding environments in which many accidents take place and clinical machines are not adequate might make it difficult to carry emergency patients to any expert. Therefore, we need to learn emergency actions to prepare for sport accidents.	Practice+Experiment	

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140	EDUCATION	PHYSICAL EDUCATION	3765	SWIMMING	1.0	Tue09-12(체육관 B)	권택용	Safe swimming by mastering all kinds of swimming strokes and understanding of the characteristics of swimming. This course helps the student instruct the promotion of health and establishment of personal goals to the beginners.	Practice+Experiment	
141	EDUCATION	PHYSICAL EDUCATION	3768	MOTOR DEVELOPMENT	2.0	Fri01-04(체육관 B)	김민주	This course prepare students for professions concerned with the learning and performance of motor skills; and engage in research investigating the neural and behavioral processes underlying the performance of motor skills of people of all ages.	Theory	
142	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3278	AEROSPACE STRUCTURE DESIGN	3.0	Tue01-03(공 C386), Fri04-06(공 C386)	부디오노	This course will address understanding structural load and various structure types, so that students can build up capability to design aerospace structures based one the estimated structural load. The contents include load, fuselage, window/door, wing, empenage, and loading gear. Structural design, fabrication, and flight test of small unmanned aerial vehicles principles will be included as a term project.	Theory	
143	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3280	THERMODYNAMICS	3.0	Mon16-18(공별 234), Wed04-06(공별 234)	김창주	Energy and its relationship to matter including the development of the three basic equations(energy, entropy, and property equations) and their applications to a wide range of engineering problems.	Theory	
144	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3284	DYNAMICS	3.0	Mon09-11(공별 234), Wed15-17(공별 234)	김창주	The application of Newton's Laws to solve dynamic problems, particle and rigid body dynamics, freebody diagrams, and writing equation of motion. Solution of equations of motion and dynamic response of simple mechanical systems. 2 hour lecture and 1 hour experiment per week.	Theory+Practice	
145	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3285	VIBRATION	3.0	Mon15-17(공 C386), Wed12-14(공별 234)	정성남	Free vibrations and forced response of linear vibration systems with a finite number of degrees of freedom and continuous systems. Writing equations of motion, solutions of the equations and physical meaning. 2 hour lecture and 1 hour experiment per week.	Theory+Practice	
146	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3288	NETWORK SYSTEM	3.0	Mon01-03(공 C386), Thu15-17(공 C386)	박정근	The course will cover the basic concepts and principles of computer networks; layered network architectures, protocols, routing, network security, network management, applications and local area networks.	Theory	
147	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3290	FUNDAMENTALS OF COMPUTER APPLICATIONS	3.0	Tue04-06(공별 234), Thu04-06(공 1102)	이정욱	This course introduces students to the fundamentals of computer software and information systems.	Theory	
148	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3292	SENSOR AND MEASUREMENT PRINCIPLES	3.0	Tue04-06(공 C386), Thu04-06(공별 234)	성상경	Introduction to characteristics of sensor signals, design of signal conditioning circuit using Wheatstone bridge and operational amplifiers, temperature sensing, strain sensing, angular and linear motion sensing, magnetometer, and digital data acquisition and adjustments.	Theory	
149	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	3293	COMPUTATIONAL FLUID ANALYSIS	3.0	Mon16-18(공 1102), Wed15-17(공 1102)	박수형	Compressible and viscous flow equations and their discretization are introduced. Finite-difference methods and finite volume methods for solution of Navier-Stokes and Euler equations are investigated. Real applications using hand-made software will be performed.	Theory+Practice	
150	ENGINEERING	AEROSPACE INFORMATION ENGINEERING	4217	COMPUTATIONAL STRUCTURAL ANALYSIS	3.0	Tue09-11(공 1102), Fri12-14(공 1102)	정성남	Students will learn the background theory of the finite element analysis and can build up analysis capability by using a commercial finite element analysis software. The contents include programing simple finite element codes based on the theory and practice for structural analysis by using the pre/post processors of the commercial software.	Theory+Practice	
151	ENGINEERING	BIOLOGICAL ENGINEERING	2034	CELL CULTURE ENGINEERING AND EXPERIMENTS	3.0	Mon04-07(공 B361), Fri13-16(공 B551)	김형주	The lecture describes general topics on microbial fermentation, microbial process engineering, general fermenter design, and microbial product recovery.	Theory+Practice	
152	ENGINEERING	BIOLOGICAL ENGINEERING	2035	CELL CULTURE ENGINEERING AND EXPERIMENTS	3.0	Thu07-10(공 B361), Fri13-16(공 B551)	김형주	The lecture describes general topics on microbial fermentation, microbial process engineering, general fermenter design, and microbial product recovery.	Theory+Practice	

NO	College	Major at Konkuk	Course No.	Course Name	Credits	Day/Period (classroom)	Instructor	Course Description	Course type	Remarks
153	ENGINEERING	BIOLOGICAL ENGINEERING	2036	MOLECULAR BIOLOGY	3.0	Mon01-03(공 B551), Tue01-03(공 B551)	차화준	The lecture describes the structures of proteins and DNA, and the functions and the controls DNA replication, transcription, translation etc.	Theory	
154	ENGINEERING	BIOLOGICAL ENGINEERING	3240	INDUSTRIAL MICROBIOLOGY II & LAB.	3.0	Tue13-16(공 B551), Fri09-12(공 B360)	양영현	The lecture and laboratory work describe the general knowledge of Microbiology and engineering designs and their industrial applications.	Theory+ Practice	
155	ENGINEERING	BIOLOGICAL ENGINEERING	3243	CELL BIOLOGY	3.0	Tue09-11(공 B551), Thu11-13(공 B551)	최태부	The lecture describes general cell biology on the view of cytotechnology including the topics of cell communication, cell cycle control, cytoskeleton and cellular tissue.	Theory	
156	ENGINEERING	BIOLOGICAL ENGINEERING	3245	BIOSEPARATION PROCESS ENGINEERING	3.0	Fri01-06(공 A402)	쿠마란	The lecture describes the culture of recombinant microorganism and process design for the protein separation and purification.	Theory	
157	ENGINEERING	BIOLOGICAL ENGINEERING	3246	PATHOLOGICAL MICROBIOLOGY	3.0	Tue10-12(공 A402), Thu07-09(공 A402)	양영현	The lecture describes types and characteristics of medical microbes and infectious diseases and strategies for prevention and treatment of infectious diseases.	Theory	
158	ENGINEERING	BIOLOGICAL ENGINEERING	3249	PHARMACOGENOMICS	3.0	Mon01-03(공 A402), Wed01-03(공 A402)	배승희	Pharmacogenomics is the lecture of how an individual's genetic inheritance affects the body's response to medicines. The lecture provides the latest information regarding the molecular mechanism of drugs in genome, SNP, genes, proteins and cellular signal transduction pathways and the prospect of personalized and preventive medicine.	Theory	
159	ENGINEERING	BIOLOGICAL ENGINEERING	3250	BIOMATERIAL AND BIOENERGY ENGINEERING	3.0	Tue13-15(공 A402), Thu15-17(공 A402)	김형주	The lecture describes the latest technologies of development and production of biomaterials and bioenergy	Theory	
160	ENGINEERING	BIOLOGICAL ENGINEERING	3251	BIOCHEMISTRY AND LAB 3	3.0	Mon09-12(공 B551), Mon13-16(공 B360)	이상현	Biochemistry transformation of biomolecules inside the cell will be introduced. Basic biochemical and engineering designs including enzymes, lipids or carbohydrates will be performed together with overviews of organic chemistry.	Theory+ Practice	
161	ENGINEERING	CHEMICAL ENGINEERING	3216	INDUSTRIAL PHYSICAL CHEMISTRY II	3.0	Tue07-09(공별 232), Thu07-09(공별 232)	민요셉	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	
162	ENGINEERING	CHEMICAL ENGINEERING	3217	INDUSTRIAL PHYSICAL CHEMISTRY II	3.0	Tue10-12(공 A204), Thu10-12(공 A204)	민요셉	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	
163	ENGINEERING	CHEMICAL ENGINEERING	3218	INDUSTRIAL ORGANIC CHEMISTRY II	3.0	Mon13-15(공 A204), Wed16-18(공 A204)	이정결	Fundamentals related to organic chemistry and the mechanisms of their reaction to establish the synthetic method and application of organic chemicals.	Theory	
164	ENGINEERING	CHEMICAL ENGINEERING	3219	INDUSTRIAL ORGANIC CHEMISTRY II	3.0	Mon16-18(공별 232), Wed13-15(공 A204)	이정결	Fundamentals related to organic chemistry and the mechanisms of their reaction to establish the synthetic method and application of organic chemicals.	Theory	
165	ENGINEERING	CHEMICAL ENGINEERING	3228	ENGINEERING PLANNING	2.0	Thu17-21(공별 232)	이정결	Process design, manufacturing and operation, reporting result, and integrated process management ability of students.	Practice+ Experiment	
166	ENGINEERING	CHEMICAL ENGINEERING	3229	ENGINEERING PLANNING	2.0	Tue17-21(공별 232)	민요셉	Process design, manufacturing and operation, reporting result, and integrated process management ability of students.	Practice+ Experiment	
167	ENGINEERING	CIVIL ENGINEERING	0084	ENGINEERING MATHEMATICS 2	3.0	Tue13-15(공 B564), Thu13-15(공 B564)	추프랑쉬	It has two major part: (i) Linear algebra and vector differential calculus, and (ii) Probability and Statistics. In the first part, characteristics of the matrix and its application is introduced. It also introduces vector differential including gradient, divergence, and curl, and vector integration including Green's theorem, Gauss divergence theorem, Stoke's theorem. In the second part, basic theories of Probability and Statistics are presented.	Theory	
168	ENGINEERING	CIVIL ENGINEERING	3129	BRIDGE ENGINEERING AND DESIGN	3.0	Mon09-12(공 1102), Wed09-12(공 C385)	하동호	Loads on bridges, standard specifications for bridge design, slab-steel beam bridges, continuous beams, plate girder bridges, P.C. Beams, R.C. Beams, and maintenance of bridges.	Theory+ Practice	

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169	ENGINEERING	CIVIL ENGINEERING	3131	WATER RESOURCES SYSTEM DESIGN	3.0	Mon10-13(공 B564), Wed10-13(공 B564)	성기원	This course is designated a design course. Water resources system design involves analytic methods and computer models for design and evaluation of water resources projects such as flood control and river basin development. Laboratory and computer work are required on selected design topics.	Theory+ Practice	
170	ENGINEERING	CIVIL ENGINEERING	3132	APPLIED MECHANICS	3.0	Mon10-12(공 C385), Wed10-12(공 C487)	이태형	Stress-strain diagrams, Axially-loaded members, torsion of circular bars, stresses in beams, analysis of stress and strain, and deflection of beams	Theory	
171	ENGINEERING	CIVIL ENGINEERING	3133	APPLIED LAND SURVEYING AND EXERCISES	3.0	Tue09-12(공 B564), Thu09-12(공 C385)	어양담	This lecture consists of triangulation, trilateration, GPS survey, topographic survey, route survey, area/volume calculation, aerial photogrammetry and golf course surveying	Theory+ Practice	
172	ENGINEERING	CIVIL ENGINEERING	3134	MATRIX STRUCTURAL ANALYSIS AND LAB.	3.0	Tue09-12(공 C385), Thu09-12(법 115)	이태형	Flexibility and stiffness matrices, equivalent joint loads, fundamentals of flexibility methods, fundamentals of stiffness methods, computer programs for structural analysis, and analysis of frames by computer programs.	Theory+ Practice	
173	ENGINEERING	CIVIL ENGINEERING	3135	MATRIX STRUCTURAL ANALYSIS AND LAB.	3.0	Tue09-12(새 302), Thu09-12(공 B564)	추프랑쉬	Flexibility and stiffness matrices, equivalent joint loads, fundamentals of flexibility methods, fundamentals of stiffness methods, computer programs for structural analysis, and analysis of frames by computer programs.	Theory+ Practice	
174	ENGINEERING	CIVIL ENGINEERING	3137	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM & LAB.	3.0	Mon05-08(새 302), Wed05-08(새 302)	편무욱	Basic concepts of Geographic Information System, Spatial Data and the Database, Data Quality and Management, Basic Analysis of Spatial Data, Introduction to Remote Sensing and GPS, Practice of GIS Design.	Theory+ Practice	
175	ENGINEERING	CIVIL ENGINEERING	3139	CAPSTONE DESGIN	2.0	Mon13-19(공 B551)	하동호	This course provides the practical competency to plan and design the civil engineering structures including steel and concrete structures, water resources, foundations and site planning. The course study incorporates structural engineering, foundation engineering, water resources, and site planning.	Practice+ Experiment	
176	ENGINEERING	CIVIL ENGINEERING	3140	CONCRETE AS MATERIAL ENGINEERING	3.0	Mon13-16(공 C385), Wed13-16(공 C385)	이용학	This course provides the basic knowledges relating to the evaluation of the physical and chemical properties of civil engineering materials required for the design and analysis purposes. The course is composed of the testing programs mainly oriented to the evaluation of material properties of concrete, steel, woods, and stones, and the theoretical lectures to analyze the experimental results and the chemical and physical properties of construction materials.	Theory+ Practice	
177	ENGINEERING	CIVIL ENGINEERING	3143	PRESTRESSED CONCRETE STRUCTURES	3.0	Mon01-03(공 C385), Wed01-03(공 C385)	이용학	Study of strength, behavior, and design of prestressed concrete members; emphasis on the necessary coordination between design and construction techniques in prestressing.	Theory	
178	ENGINEERING	ELECTRICAL ENGINEERING	2016	ELECTIRC DESIGN PROJECT 2	3.0	Mon01-06(공 A1218)	안형근	Pre-production will be performed based on the analysis of Electric Design Project 1. Sole role will be assigned to each individual to finalize his/her project to show its economics based electrical performance and reliability.	Theory	
179	ENGINEERING	ELECTRICAL ENGINEERING	2017	ELECTIRC DESIGN PROJECT 2	3.0	Wed11-16(공 A1218)	최영호	Pre-production will be performed based on the analysis of Electric Design Project 1. Sole role will be assigned to each individual to finalize his/her project to show its economics based electrical performance and reliability.	Theory	
180	ENGINEERING	ELECTRICAL ENGINEERING	2018	ELECTIRC DESIGN PROJECT 2	3.0	Mon01-06(공 C487)	조영훈	Pre-production will be performed based on the analysis of Electric Design Project 1. Sole role will be assigned to each individual to finalize his/her project to show its economics based electrical performance and reliability.	Theory	
181	ENGINEERING	ELECTRICAL ENGINEERING	3179	ELECTRICAL ENGINEERING LABORATORY 3	1.0	Thu01-04(공별 135)	조영훈	This course deals with electric machinery and electronic circuit design to be applicable for confirming theory and experimental result.	Practice+ Experiment	
182	ENGINEERING	ELECTRICAL ENGINEERING	3180	ELECTRICAL ENGINEERING LABORATORY 3	1.0	Thu05-08(공별 135)	조영훈	This course deals with electric machinery and electronic circuit design to be applicable for confirming theory and experimental result.	Practice+ Experiment	

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183	ENGINEERING	ELECTRICAL ENGINEERING	3181	ELECTRICAL ENGINEERING LABORATORY 3	1.0	Thu13-16(공별 136)	조영훈	This course deals with electric machinery and electronic circuit design to be applicable for confirming theory and experimental result.	Practice+Experiment	
184	ENGINEERING	ELECTRICAL ENGINEERING	3182	ELECTRICAL ENGINEERING LABORATORY 3	1.0	Thu17-19(공별 136)	조영훈	This course deals with electric machinery and electronic circuit design to be applicable for confirming theory and experimental result.	Practice+Experiment	
185	ENGINEERING	ELECTRICAL ENGINEERING	3183	ELECTRIC CIRCUIT AND DESIGN 2	3.0	Mon10-12(공 C486), Tue04-06(공 B552)	최영호	It covers, based upon the Electric Circuit and Design1, network analysis of various circuits, transient analysis, Laplace and Fourier transformations and 4 port network analysis.	Theory	
186	ENGINEERING	ELECTRICAL ENGINEERING	3184	ELECTRIC CIRCUIT AND DESIGN 2	3.0	Mon13-15(공 C483), Tue01-03(공 C486)	최영호	It covers, based upon the Electric Circuit and Design1, network analysis of various circuits, transient analysis, Laplace and Fourier transformations and 4 port network analysis.	Theory	
187	ENGINEERING	ELECTRICAL ENGINEERING	3186	ELECTRICAL ECONOMICS	3.0	Mon16-18(공 C486), Tue08-10(공 C486)	노재형	This topic deals with the economic theory and practice of pricing and investment in electricity supply. It covers the general introduction to basic concept of electricity economics, including economics, finance, tariff policy, market theory, pricing and investment planning.	Theory	
188	ENGINEERING	ELECTRICAL ENGINEERING	3189	ELECTRONIC CIRCUITS AND DESIGN	2.0	Tue10-12(공 C481), Wed01-03(공 C486)	조영훈	It covers small and/or large signal analysis of BJT and FET including operation principles and frequency response of various amplifiers.	Theory+Practice	
189	ENGINEERING	ELECTRICAL ENGINEERING	3190	ELECTRONIC CIRCUITS AND DESIGN	2.0	Tue07-09(공 C481), Wed11-13(공 C483)	조영훈	It covers small and/or large signal analysis of BJT and FET including operation principles and frequency response of various amplifiers.	Theory+Practice	
190	ENGINEERING	ELECTRICAL ENGINEERING	3194	DIGITAL CONTROL SYSTEMS	3.0	Tue07-09(공 A1218), Wed04-06(공 A1218)	최영호	It covers the fundamentals of control theory as applied to digital controllers or sampled data control systems in general.	Theory	
191	ENGINEERING	ELECTRICAL ENGINEERING	3197	ALTERNATIVE ENERGY	3.0	Mon13-15(공 B566), Wed04-06(공 A601)	조영훈	It covers operation principles and processing techniques for new types of energy sources such as small hydro power, solar cell, fuel cell, hydrogen etc.	Theory	
192	ENGINEERING	ENVIRONMENTAL ENGINEERING	0057	GLOBAL ENVIRONMENTAL SCIENCE	3.0	Tue04-06(공 B567), Thu04-06(공 B567)	정혜근	Basics of global environmental science and environment conservation for sustainable development. Understanding of the earth as life-support system comprising atmosphere, hydrosphere, geosphere, and biosphere, and their relationships. Topics include energy cycle, meteorological system, atmospheric cycle, water cycle, and also covers global environment changes and ecosystem disruption due to air, water, and soil pollution as a consequence of industrialization. Emissions from various sources,	Theory	Environmental engineering students only
193	ENGINEERING	ENVIRONMENTAL ENGINEERING	3272	ECOTECHNOLOGICAL CIVIL ENGINEERING	3.0	Wed03-08(공 B567)	디비폴	Basic principles of general ecology, effect of environmental pollution on ecosystem, and ecological ethics and technology for environmental and civil engineers. Discussion on ecologically sound and sustainable development, its related technology, and pending issues of ecosystem disruption, especially focusing on civil construction works.	Theory	
194	ENGINEERING	ENVIRONMENTAL ENGINEERING	3275	SOIL REMEDIATION DESIGN	3.0	Mon13-15(공 B567), Tue07-09(공 B567)	김한승	Primarily structure and physical, chemical, and biological characteristics of soil is introduced in this course. Armed with those fundamentals about soil, students will learn mechanisms and relationships between soil and contaminants, contamination processes, and their impacts on soil environments.	Theory	
195	ENGINEERING	ENVIRONMENTAL ENGINEERING	4204	ENVIRONMENTAL SYSTEM ENGINEERING	3.0	Mon04-06(공 B567), Tue01-03(공 B567)	김한승	This course covers the fundamentals of system design and modeling for the environmental systems and processes associated with water, air, soil, and wastes as well as their applications, based upon the principles of engineering design approaches (e.g., mass balance, mass transfer/transport, single/multi-phase processes, interfacial process, and unit process design and application).	Theory	
196	ENGINEERING	INDUSTRIAL ENGINEERING	3260	ENTERPRISED DATABASE MODELING	3.0	Tue04-06(공 A403), Thu01-03(공 A403)	윤장혁	Solving of industrial engineering and management-related problems using either PC or mainframe computers. Emphasis on the associated software available by the department or by the student.	Theory	

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197	ENGINEERING	INDUSTRIAL ENGINEERING	3263	INTRODUCTION TO TECHNOLOGY INNOVATION	3.0	Mon04-06(공 B565), Wed01-03(공 B565)	윤장혁	In this course, students will have an understanding of various technology innovation theories and management innovation theories. The course will specifically cover concepts and cases of innovation theories including TRIZ(the Theory of Inventive Problem Solving), disruptive innovation, TOC(Theory of Constraints), scenario planning.	Theory	
198	ENGINEERING	MATERIALS CHEMISTRY &ENGINEERING	3205	ORGANIC CHEMISTRY II	3.0	Mon01-03(공별 231), Wed04-06(공별 231)	유영태	While the first half of the two semester courses deals with the basic principles of aliphatic compounds, and the second half focuses on the fundamentals related to the structures of cyclic and aromatic compounds and their chemical and physical properties and the synthesis and reaction of organic compounds with functional groups including hydroxyl, carbonyl, amine, aldehydes, and phenol.	Theory	
199	ENGINEERING	MATERIALS CHEMISTRY &ENGINEERING	3206	ORGANIC CHEMISTRY II	3.0	Mon10-12(공별 231), Wed10-12(공별 231)	유영태	While the first half of the two semester courses deals with the basic principles of aliphatic compounds, and the second half focuses on the fundamentals related to the structures of cyclic and aromatic compounds and their chemical and physical properties and the synthesis and reaction of organic compounds with functional groups including hydroxyl, carbonyl, amine, aldehydes, and phenol.	Theory	
200	ENGINEERING	MATERIALS CHEMISTRY &ENGINEERING	3211	ENERGY MATERIALS	3.0	Fri01-06(공 A207)	전용석	This course provides the understanding of the physicochemical behavior and the property of energy materials to be used in energy conversion and storage devices. The principles, materials and fabrications in battery, solar cell, fuel cell, and white LED will be discussed.	Theory	
201	ENGINEERING	MATERIALS CHEMISTRY &ENGINEERING	3212	BIOMATERIALS ENGINEERING	3.0	Mon07-09(공별 231), Wed07-09(공별 231)	최명석	A subject for synthesis and applications of bio-related organic & inorganic materials	Theory	
202	ENGINEERING	MATERIALS CHEMISTRY &ENGINEERING	3213	SYNTESIS AND PROPERTIES OF FUNCTIONAL POLYMERS	3.0	Tue04-06(공 A207), Thu01-03(공 A207)	유영태	This class deals with the design and the structure-property relationships of various functional polymers via controlled polymer synthesis, co-polymerization and modification of polymers. Topics on engineering plastics, eco-friendly materials, energy materials, membranes, conducting polymers, biomedical polymers, and display materials are included.	Theory	
203	ENGINEERING	MECHANICAL ENGINEERING	0086	BASIC NUMERICAL ANALYSIS	3.0	Fri01-06(공 1102)	올세브스키	This course is designed to develop an problem-solving capability through numerical procedures. This introductory course mainly includes the understanding of computer architecture and the exercise of programming language. Also, discussion on numerical errors and algorithms to solve various types of engineering problems will be provided to students.	Theory	
204	ENGINEERING	MECHANICAL ENGINEERING	2003	MECHANICAL ENGINEERING LAB. 2	1.0	Fri13-15(공 B554), Fri16(공 B155)	이병욱	Flow velocity, relative humidity, and temperature measurement with thermocouples, hygrometers, and hot-wires. Basic understanding of thermo fluid dynamics and application them to practical fields.	Practice+Experiment	
205	ENGINEERING	MECHANICAL ENGINEERING	2004	MECHANICAL ENGINEERING LAB. 2	1.0	Fri17(공 B155), Fri18-19(공 B554)	이병욱	Flow velocity, relative humidity, and temperature measurement with thermocouples, hygrometers, and hot-wires. Basic understanding of thermo fluid dynamics and application them to practical fields.	Practice+Experiment	
206	ENGINEERING	MECHANICAL ENGINEERING	3150	DYNAMICS	3.0	Mon10-12(공 B554), Fri10-12(공 B554)	정태건	Newtonian dynamics of a particle, system of particles, and rigid bodies. Kinematics covers motion analysis of position, velocity, and acceleration. Kinetics is based on the Newton's second law, work-energy principle, and impulse-momentum principle.	Theory	
207	ENGINEERING	MECHANICAL ENGINEERING	3151	DYNAMICS	3.0	Tue04-06(공 B554), Thu04-06(공 B554)	정태건	Newtonian dynamics of a particle, system of particles, and rigid bodies. Kinematics covers motion analysis of position, velocity, and acceleration. Kinetics is based on the Newton's second law, work-energy principle, and impulse-momentum principle.	Theory	
208	ENGINEERING	MECHANICAL ENGINEERING	3152	DYNAMICS	3.0	Tue10-12(공 B554), Thu10-12(공 B554)	정태건	Newtonian dynamics of a particle, system of particles, and rigid bodies. Kinematics covers motion analysis of position, velocity, and acceleration. Kinetics is based on the Newton's second law, work-energy principle, and impulse-momentum principle.	Theory	

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209	ENGINEERING	MECHANICAL ENGINEERING	3153	SYSTEM MODELING, SIMULATION AND DESIGN	3.0	Tue03-06(공 A406), Thu03-06(공 A406)	신기현	Modeling, analysis, and design of dynamic systems. Experimental validation of mathematical models of dynamic systems.	Theory+ Practice	
210	ENGINEERING	MECHANICAL ENGINEERING	3155	THERMODYNAMICS	3.0	Thu13-18(공 B554)	이병욱	Energy and its relationship to matter including the development of the three basic equations(energy, entropy, and property equations) and their applications to a wide range of engineering problems.	Theory	B-learning
211	ENGINEERING	MECHANICAL ENGINEERING	3166	STATICS	3.0	Tue17-19(공 B554), Thu17-18(공 A406)	추프랑삭	It is to understand the force and equilibrium. It covers the basic concepts of force and moment, equilibrium conditions, truss analysis, distributed forces, centroid, moments of inertia, and principle of virtual work.	Theory	
212	ENGINEERING	MECHANICAL ENGINEERING	3167	CONTROL ENGINEERING	3.0	Fri09-14(공 C483)	한수희	Design and analysis of linear time-invariant control systems; Modeling of dynamic systems, time response of control systems, root locus method, frequency response method, stability analysis, and state space approach using the pole placement technique and the observer; Computer simulation using control softwares; Experiment of a real-time digital control system using PC.	Theory	
213	ENGINEERING	MECHANICAL ENGINEERING	3171	MEASUREMENT SYSTEM DESIGN	3.0	Mon15-18 (공 A406), Wed13-16 (공 B170-1)	이상운	This is a basic course in the mechatronics area and mostly deals with sensor-related theories and applications. Main topics include electric circuits and components, system response, data acquisition, sensors, and actuators. Typically a class consists of a lecture and a lab	Theory+ Practice	
214	ENGINEERING	MECHANICAL ENGINEERING	3172	APPLIED MECHANICS OF MATERIALS	3.0	Tue01-06(공 B566)	이동진	Stress-strain relationships for elastic behavior, elementary theory of plasticity, dislocation theory, strengthening mechanism, fracture mechanical behavior of composite materials, fatigue, creep and stress rupture, impact fracture.	Theory	
215	ENGINEERING	ORGANIC & NANOSYSTEM ENGINEERING	3237	INFORMATION AND ELECTRONIC MATERIALS	3.0	Mon04-06(공별 233), Thu04-06(공별 233)	이위형	This course covers fundamentals of semiconductors for understanding basic properties of information and electronic materials. In addition, processing method to fabricate semiconductor thin-film will be introduced. Operating principles of electronic devices (i.e., transistors, diodes) that use information and electronic materials will also be introduced. Finally, physical theories of organic semiconductors and operating principles of their devices will be covered.	Theory+ Practice	
216	ENGINEERING	ORGANIC & NANOSYSTEM ENGINEERING	3238	ORGANIC AND NANO MATERIALS SCIENCE	3.0	Mon13-15(공별 233), Wed10-12(공별 233)	고준석	This course introduces fundamental concepts in materials science and help students understand material structures, how structure dictates properties and how processing can change structure.	Theory	
217	ENGINEERING	ORGANIC & NANOSYSTEM ENGINEERING	3239	ORGANIC AND NANO MOLECULES DESIGN AND SYNTHESIS	3.0	Mon09-12(공 B556), Wed13-16(공 B556)	고준석	This course offers an understanding of molecules design, organic synthesis, purification, separation, quantitative analysis and qualitative analysis for the design and synthesis of organic and nano molecules.	Theory+ Practice	
218	INFORMATION & COMMUNICATIONS	COMPUTER SCIENCE & ENGINEERING	4039	NETWORK PROGRAMMING	3.0	Mon05-08(새 303), Wed05-08(새 303)	김기천	This course is made of implementation of theory of data communication. TCP/IPv4 and TCP/IPv6 Socket is basically used for implementation. Term Project based evaluation are executed.	Theory+ Practice	
219	INFORMATION & COMMUNICATIONS	COMPUTER SCIENCE & ENGINEERING	4040	NETWORK PROGRAMMING	3.0	Mon01-04(새 303), Wed01-04(새 303)	김기천	This course is made of implementation of theory of data communication. TCP/IPv4 and TCP/IPv6 Socket is basically used for implementation. Term Project based evaluation are executed.	Theory+ Practice	
220	INFORMATION & COMMUNICATIONS	COMPUTER SCIENCE & ENGINEERING	4050	COMPUTER APPLICATIONS AND PRACTICE 2	3.0	Mon17-19(새 402), Thu13-16(새 402)	하영국	Designs and implements various systems for various application domain problems. Exercises with examples and case study and develops new systems from the scratch or by extending the existing softwares.	Theory+ Practice	
221	INFORMATION & COMMUNICATIONS	COMPUTER SCIENCE & ENGINEERING	4060	CAPSTONE DESIGN2	3.0	Thu17-19(새 504), Fri17-20(새 602)	한기준	This course covers the graduation work as a capstone design. The project is a team-based work. In this course, students make presentations for the interim process and a final result of the project. The supervision professor can give advise for them.	Theory+ Practice	
222	INFORMATION & COMMUNICATIONS	COMPUTER SCIENCE & ENGINEERING	4061	CAPSTONE DESIGN2	3.0	Tue17-19(새 601), Wed17-20(새 1207)	유준범	This course covers the graduation work as a capstone design. The project is a team-based work. In this course, students make presentations for the interim process and a final result of the project. The supervision professor can give advise for them.	Theory+ Practice	

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223	INFORMATION & COMMUNICATIONS	COMPUTER SCIENCE & ENGINEERING	4062	WIRELESS AND MOBILE NETWORK	3.0	Mon01-04(새 402), Wed01-04(새 402)	한선영	This course covers advanced topics of design and configuration of various networks. Studies network design, network service configuration, protocol setup, interconnecting network devices and operating. Topics include switching, VLANs, IGRP, IPX, ACLs, ISDN, establishing serial PPP connections, establishing a frame relay PVC connection and network management.	Theory+ Practice	
224	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	0355	ELECTRONIC APPLIED MATHMATICS	3.0	Mon13-15(공 C482), Wed10-12(공 C482)	박성정	This subject is related to the lecture of the essential applied mathematics including probability & statistics , and linear algebra.	Theory	
225	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4065	DISPLAY ENGINEERING	3.0	Wed04-06(공 C485), Thu01-03(공 C481-1)	박기찬	LCD, PDP, OEL, Physical analysis and operating mechanism, OEL structure and energy band.	Theory	
226	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4067	MICROPROCESSOR APPLICATIONS	3.0	Tue13-18(공 C482)	김준태	Operation and timing of microprocessors; design of microprocessor-based systems; 16-bit microprocessors; bit sliced microprocessors.	Theory	
227	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4068	MICROPROCESSOR APPLICATIONS	3.0	Wed13-18(공 C485)	오종규	Operation and timing of microprocessors; design of microprocessor-based systems; 16-bit microprocessors; bit sliced microprocessors.	Theory	
228	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4072	MOBILE COMMUNICATIONS	3.0	Tue10-12(공 C482), Thu07-09(공 C482)	김준태	Fading channel, diversity techniques, channel coding, multiple access techniques (CDMA, FDMA, TDMA).	Theory	
229	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4073	MOBILE COMMUNICATIONS	3.0	Tue10-12(공 C485), Thu07-09(공 C485)	오종규	Fading channel, diversity techniques, channel coding, multiple access techniques (CDMA, FDMA, TDMA).	Theory	
230	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4077	ELECTRONIC CIRCUITS 1	3.0	Mon07-09(공 C485), Wed10-12(공 C485)	김진태	Basic analog and digital circuit design using Bipolar Junction Transistors, Field Effect Transistors and integrated circuits.	Theory	
231	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4078	ELECTRONIC CIRCUITS 1	3.0	Mon10-12(공 C485), Wed07-09(공 C485)	김진태	Basic analog and digital circuit design using Bipolar Junction Transistors, Field Effect Transistors and integrated circuits.	Theory	
232	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4081	COMPUTER NETWORK	3.0	Mon04-06(공 C485), Wed01-03(공 C485)	김영범	LAN(Local Area Network), MAN(Metropolitan Area Network), WAN(Wide Area Network), Switching technology, ATM, TCP/IP.	Theory	
233	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4082	COMPUTER NETWORK	3.0	Mon10-12(공 C482), Wed07-09(공 C482)	김영범	LAN(Local Area Network), MAN(Metropolitan Area Network), WAN(Wide Area Network), Switching technology, ATM, TCP/IP.	Theory	
234	INFORMATION & COMMUNICATIONS	ELECTRONICS ENGINEERING	4085	UNDERSTANDING OF THE NEXT GENERATION MOBILE WIRELESS COMMUNICATION STANDARD TECHNOLOGY.	3.0	Wed13-18 (공 C481-1)	윤은철	Through this class, students can learn about the technologies of the next generation mobile wireless communication standards. In particular, this class elaborates on the techniques used in the current mobile wireless industries dividing the contents into physical layer and MAC layer. The contents of this class includes the history of mobile wireless communication development, the introduction of digital communication techniques, understanding of wireless channel, understanding of OFDM, WiMAX frame structure, the principle of subchannelization, the introduction of MIMO and Beamforming techniques, the theories of coding and decoding, structure of MAC layer and the function of each sublayers, and etc.	Theory	
235	INFORMATION & COMMUNICATIONS	INTERNET & MULTIMEDIA ENGINEERING	2398	JAVA PROGRAMMING	3.0	Mon03-06(새 401), Wed03-06(새 401)	이한구	This is the introductory Java programming course intended primarily for Internet & Multimedia Major students. It uses the Java language, and prepares the student for more advanced work in computer science or engineering courses.	Theory+ Practice	
236	INFORMATION & COMMUNICATIONS	INTERNET & MULTIMEDIA ENGINEERING	2399	JAVA PROGRAMMING	3.0	Mon11-14(새 401), Wed11-14(새 401)	이한구	This is the introductory Java programming course intended primarily for Internet & Multimedia Major students. It uses the Java language, and prepares the student for more advanced work in computer science or engineering courses.	Theory+ Practice	
237	INFORMATION & COMMUNICATIONS	INTERNET & MULTIMEDIA ENGINEERING	4101	GRADUATION PROJECT 2	3.0	Fri09-14(새 403)	김성열	This course is the second phase course of the two-semester project course of graduation projects 1 and 2. The project design is modified and adapted by reflecting the result of graduation project 1, and then the final item is produced through pilot design.	Theory+ Practice	
238	INFORMATION & COMMUNICATIONS	INTERNET & MULTIMEDIA ENGINEERING	4102	GRADUATION PROJECT 2	3.0	Fri01-06(새 503)	김성열	This course is the second phase course of the two-semester project course of graduation projects 1 and 2. The project design is modified and adapted by reflecting the result of graduation project 1, and then the final item is produced through pilot design.	Theory+ Practice	

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239	ARCHITECTURE	ARCHITECTURAL DESIGN	2366	ARCHITECTURAL DESIGN 6	6.0	Mon11-19(건 A405), Thu05-12(건 A405)	김정곤	A continuation of Architectural Design 5, this course provides experience in urban understanding and architectural design, and gain further insight into the issues of contextualism in design. This course is aimed at generating architectural design in urban, social and cultural context.	Theory+ Practice	
240	ARCHITECTURE	ARCHITECTURAL DESIGN	2367	ARCHITECTURAL DESIGN 6	6.0	Mon11-19(건 A406), Thu05-12(건 A406)	주범, 신종환	A continuation of Architectural Design 5, this course provides experience in urban understanding and architectural design, and gain further insight into the issues of contextualism in design. This course is aimed at generating architectural design in urban, social and cultural context.	Theory+ Practice	
241	ARCHITECTURE	ARCHITECTURAL DESIGN	2368	ARCHITECTURAL DESIGN 6	6.0	Mon11-19(건 A407), Thu05-12(건 A407)	박현수, 이강수	A continuation of Architectural Design 5, this course provides experience in urban understanding and architectural design, and gain further insight into the issues of contextualism in design. This course is aimed at generating architectural design in urban, social and cultural context.	Theory+ Practice	
242	ARCHITECTURE	ARCHITECTURAL DESIGN	2369	ARCHITECTURAL DESIGN 6	6.0	Mon11-19(건 A408), Thu05-12(건 A408)	김영석, 한지섭	A continuation of Architectural Design 5, this course provides experience in urban understanding and architectural design, and gain further insight into the issues of contextualism in design. This course is aimed at generating architectural design in urban, social and cultural context.	Theory+ Practice	
243	ARCHITECTURE	ARCHITECTURAL DESIGN	3988	ARCHITECTURAL DESIGN 2	4.0	Tue11-20(건 A308)	송병준	A continuation of Architectural Design 1, this course focuses on the context in which we build, how people perceive the urban environment, how buildings fit contextually into existing circumstances, and how outdoor spaces relate to built forms.	Theory+ Practice	
244	ARCHITECTURE	ARCHITECTURAL DESIGN	3989	ARCHITECTURAL DESIGN 2	4.0	Tue11-20(건 A306)	최주연	A continuation of Architectural Design 1, this course focuses on the context in which we build, how people perceive the urban environment, how buildings fit contextually into existing circumstances, and how outdoor spaces relate to built forms.	Theory+ Practice	
245	ARCHITECTURE	ARCHITECTURAL DESIGN	3991	ARCHITECTURAL DESIGN 2	4.0	Tue11-20(건 A310)	주범	A continuation of Architectural Design 1, this course focuses on the context in which we build, how people perceive the urban environment, how buildings fit contextually into existing circumstances, and how outdoor spaces relate to built forms.	Theory+ Practice	
246	ARCHITECTURE	ARCHITECTURAL DESIGN	3992	ARCHITECTURAL DESIGN 4	6.0	Mon11-19(건 A411), Thu05-12(건 A411)	이낙경, 신정섭	A continuation of Architectural Design 3, this course addresses problems of moderate complexity in a more thorough and comprehensive manner. The objectives are to provide experience in urban site analysis and design, and gain further insight into the issues of contextualism in design.	Theory+ Practice	
247	ARCHITECTURE	ARCHITECTURAL DESIGN	3993	ARCHITECTURAL DESIGN 4	6.0	Mon11-19(건 A410), Thu05-12(건 A410)	윤창기, 권인영	A continuation of Architectural Design 3, this course addresses problems of moderate complexity in a more thorough and comprehensive manner. The objectives are to provide experience in urban site analysis and design, and gain further insight into the issues of contextualism in design.	Theory+ Practice	
248	ARCHITECTURE	ARCHITECTURAL DESIGN	3994	ARCHITECTURAL DESIGN 4	6.0	Mon11-19(건 A409), Thu05-12(건 A409)	구승희, 최원유	A continuation of Architectural Design 3, this course addresses problems of moderate complexity in a more thorough and comprehensive manner. The objectives are to provide experience in urban site analysis and design, and gain further insight into the issues of contextualism in design.	Theory+ Practice	
249	ARCHITECTURE	ARCHITECTURAL DESIGN	3995	SITE DESIGN	3.0	Wed13-18(건 A207)	김영석	Architecture building exists as a organic composition, not only as mono-objective, This course explores the growth of site comprehension ability to architecture and urban understanding with a site composition methodology.	Theory	
250	ARCHITECTURE	ARCHITECTURAL DESIGN	3999	SITE PLANNING	3.0	Fri07-12(건 A207)	김영석	This course aims at understanding considerative elements in the process of site planning, mutual relation of building, site elements of geographical option and site analysis.	Theory	
251	ARCHITECTURE	ARCHITECTURAL DESIGN	4000	HISTORY OF WESTERN ARCHITECTURE	3.0	Tue01-03(건 B201), Thu04-06(건 B201)	이상헌	This course focuses on research of the characters of western architecture from the primitive age, the dawn of civilization to modern architecture and primary factors in architectural history.	Theory	

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252	ARCHITECTURE	ARCHITECTURAL DESIGN	4005	ARCHITECTURE AND FORM	3.0	Wed11-19(건 A307)	계소라	This course introduces methods of architectural form composition with exploring form composition methodology through research as well as practicing architectural design process.	Theory+ Practice	
253	ARCHITECTURE	ARCHITECTURAL DESIGN	4007	ARCHITECTURE AND FORM	3.0	Mon11-19(건 A303)	리더	This course introduces methods of architectural form composition with exploring form composition methodology through research as well as practicing architectural design process.	Theory+ Practice	
254	ARCHITECTURE	ARCHITECTURAL DESIGN	4220	ARCHITECTURAL DESIGN 4	6.0	Mon11-19(건 A312), Thu05-12(건 A312)	장세영, 김수란	A continuation of Architectural Design 3, this course addresses problems of moderate complexity in a more thorough and comprehensive manner. The objectives are to provide experience in urban site analysis and design, and gain further insight into the issues of contextualism in design.	Theory+ Practice	
255	ARCHITECTURE	ARCHITECTURAL DESIGN	4221	ARCHITECTURAL DESIGN 4	6.0	Mon11-19(건 A311), Fri05-12(건 A311)	이중원, 박찬식	A continuation of Architectural Design 3, this course addresses problems of moderate complexity in a more thorough and comprehensive manner. The objectives are to provide experience in urban site analysis and design, and gain further insight into the issues of contextualism in design.	Theory+ Practice	
256	ARCHITECTURE	ARCHITECTURAL ENGINEERING	2372	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 2	6.0	Mon11-19(건 A401), Wed11-18(건 A401)	김용식	Capstone Design is a two-semester sequence of course that provides students a design project which is carefully selected in the areas of architectural engineering.	Practice+ Experiment	
257	ARCHITECTURE	ARCHITECTURAL ENGINEERING	2373	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 2	6.0	Mon11-19(건 A403), Wed11-18(건 A403)	안형준	Capstone Design is a two-semester sequence of course that provides students a design project which is carefully selected in the areas of architectural engineering.	Practice+ Experiment	
258	ARCHITECTURE	ARCHITECTURAL ENGINEERING	2374	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 2	6.0	Mon11-19(건 B704), Wed11-18(건 B704)	오중근	Capstone Design is a two-semester sequence of course that provides students a design project which is carefully selected in the areas of architectural engineering.	Practice+ Experiment	
259	ARCHITECTURE	ARCHITECTURAL ENGINEERING	2375	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 2	6.0	Mon11-19(건 A301), Wed11-18(건 A301)	김경환	Capstone Design is a two-semester sequence of course that provides students a design project which is carefully selected in the areas of architectural engineering.	Practice+ Experiment	
260	ARCHITECTURE	ARCHITECTURAL ENGINEERING	2376	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 2	6.0	Mon11-19(건 A313), Wed11-18(건 A313)	김한수	Capstone Design is a two-semester sequence of course that provides students a design project which is carefully selected in the areas of architectural engineering.	Practice+ Experiment	
261	ARCHITECTURE	ARCHITECTURAL ENGINEERING	4016	REINFORCED CONCRETE ENGINEERING 1	3.0	Tue01-03(건 A207), Fri04-06(건 A207)	김한수	This course teaches the strength, behavior, and design of reinforced concrete members subjected to moments, shear, and axial forces. It includes extensive discussion of the influence of the material properties on behavior.	Theory	
262	ARCHITECTURE	ARCHITECTURAL ENGINEERING	4019	CONSTRUCTION SCHEDULING AND CONTROL	3.0	Mon01-06(건 A208)	김경환	This class introduces various theories in construction scheduling and control. The subject covers CPM, resource allocation, linear scheduling, delay analysis, earned value management, scheduling system, and so on.	Theory	
263	ARCHITECTURE	ARCHITECTURAL ENGINEERING	4020	ARCHITECTURE AND FORM	3.0	Wed11-19(건 A303)	김정곤	This course introduces methods of architectural form composition with exploring form composition methodology through research as well as practicing architectural design process.	Theory+ Practice	
264	ARCHITECTURE	ARCHITECTURAL ENGINEERING	4193	ARCHITECTURE AND FORM	3.0	Wed11-19(건 A305)	브라이언	This course introduces methods of architectural form composition with exploring form composition methodology through research as well as practicing architectural design process.	Theory+ Practice	
265	ARCHITECTURE	HOUSING ENVIRONMENT	2377	GRADUATION WORKS 2	6.0	Mon11-19(건 A208), Thu05-12(건 A208)	권오정, 강순주	Students complete senior research/ design project. Accomplishment will be exhibited and evaluated.	Theory+ Practice	
266	ARCHITECTURE	HOUSING ENVIRONMENT	2378	GRADUATION WORKS 2	6.0	Mon11-19(건 A209), Thu05-12(건 A209)	최정민, 모정현	Students complete senior research/ design project. Accomplishment will be exhibited and evaluated.	Theory+ Practice	
267	ARCHITECTURE	HOUSING ENVIRONMENT	4023	ARCHITECTURAL DESIGN 2	4.0	Mon11-20(건 A309)	임수현	A continuation of Architectural Design 1, this course focuses on the context in which we build, how people perceive the urban environment, how buildings fit contextually into existing circumstances, and how outdoor spaces relate to built forms.	Theory+ Practice	

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268	ARCHITECTURE	HOUSING ENVIRONMENT	4027	HOUSING DISPLAY AND COORDINATION	3.0	Fri01-08(건 A208)	우지연	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	
269	ART & DESIGN	APPAREL DESIGN	3585	FASHION DESIGN 2	3.0	Mon11-18(예 618)	정윤주	Study of basic elements and principles of fashion design, fashion research and analysis, and creating the line by rendering.	Theory+ Practice	
270	ART & DESIGN	APPAREL DESIGN	3600	GLOBAL FASHION MARKETING	3.0	Tue11-16(예 412)	석효정	Study the global marketing theories and discuss the case study in fashion business to be a global fashion leader.	Theory	
271	ART & DESIGN	APPAREL DESIGN	3604	FASHION BUSINESS ENGLISH1	2.0	Fri11-16(예 412)	정윤주	Practices English terms which are important in fashion business and focuses on conversation in the business situations.	Theory+ Practice	
272	ART & DESIGN	ARTS & CRAFTS	3689	DIGITAL CRAFT DESIGN FOUNDATION 2	2.0	Mon11-16(새 403)	최석원	Introductory computer design courses that emphasizing the 2-Dimensional Design development and fostering the students to express their unlimited creative ideas and recreate thought processes by using the Digital medium. In addition, these courses designed to practice and learn how to make digital portfolio as foundation by learning Adobe Illustrator and Photoshop.	Practice+ Experiment	
273	ART & DESIGN	ARTS & CRAFTS	3690	BASIC JEWELRY	3.0	Tue11-18 (공예관세미나실)	백한승	This course teaches students how to control basic materials and fabrication techniques for metal in order to attain proficiency in creative production ability and the ability to express three-dimensional sense and forms through various techniques.	Practice+ Experiment	
274	ART & DESIGN	ARTS & CRAFTS	3693	METAL CRAFTS PRODUCTS 2	3.0	Wed01-08 (공예관세미나실)	남화경	This part teaches students complex techniques in an atmosphere of modern industrial society that encourages aesthetic innovation and technical experimentation relates with industry in metal fields.	Practice+ Experiment	
275	ART & DESIGN	ARTS & CRAFTS	3694	LIVING DECO STUDIO 2	2.0	Wed11-16 (도자공예실 2)	이꽃담	Studying Living space and Crafts decoration based on learning conceptual understanding of space, structural elements and expression methods. Also, this course is designed to develop artistic identity through individual project using both metal, ceramic materials and techniques.	Practice+ Experiment	
276	ART & DESIGN	ARTS & CRAFTS	3695	DIGITAL CRAFT STUDIO 2	3.0	Mon11-18(새 302)	박성현, 성국주	Based on Digital Form and Structure 1, 2 studio courses experiences, students will produce focus on consumer product design. In order to accomplish such a goal, students will access to latest technology and rapidly developing both software and hardware and expand the students to enhance their ability, logical process, knowledge and insight through finding their own identity.	Practice+ Experiment	
277	ART & DESIGN	ARTS & CRAFTS	3696	HUMAN BODY AND DECORATION	3.0	Fri03-10(금속공예실)	김계옥	This curriculum begins with a foundation of traditional and contemporary metalsmithing techniques, especially metal jewelry. Students are encouraged to explore various manufacturing methods. This course basically emphasizes skilled craftsmanship, conceptual issues, design, personal expression and aesthetics. Through out close interactions with continuous research regarding new materials and classes, students gain experience in contemporary design issues and an in-depth understanding the concept of jewelry. It also makes them possible to expand the concept of jewelry and to develop new craft technique.	Practice+ Experiment	
278	ART & DESIGN	ARTS & CRAFTS	3697	SPACE AND DECORATION 2	3.0	Tue11-18 (금속공예실)	남화경, 이하린	Through metal material as medium, exploring expression of the form as language by analyzing artistic elements and possibility of creativeness. This course is structured to produce metal sculpture pieces and interior objects which will then install within environment or living space. Students will urge to identify relations of architecture and nature. Based on that observation, continue to explore harmony between the work and surrounding. Develop the theory as for their final projects and complete the research on its field of the study	Practice+ Experiment	
279	ART & DESIGN	ARTS & CRAFTS	3698	CERAMIC MATERIALS LABORATORY 2	3.0	Tue01-08 (도자공예실 2)	남화경, 이하린	Understanding and Experimentation based on research of ceramic materials would propose the students to create the new dimension of each one's own work.	Practice+ Experiment	

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280	ART & DESIGN	ARTS & CRAFTS	3699	CRAFT STUDIO 4	3.0	Thu01-08 (도자공예실 1)	박성현, 이꽃담	The seniors concentrate on each one's major to prepare the thesis exhibition in the fall semester. Producing the work of high quality as designer/artist is the goal of this courses. Individual lesson with the instructor will help to develop each student's ideas and result of work.	Practice+Experiment	
281	ART & DESIGN	ARTS & CRAFTS	3700	CRAFT STUDIO 3	3.0	Wed01-08 (도자공예실 1)	박성현, 이꽃담	The seniors concentrate on each one's major to prepare the thesis exhibition in the fall semester. Producing the work of high quality as designer/artist is the goal of this courses. Individual lesson with the instructor will help to develop each student's ideas and result of work.	Practice+Experiment	
282	ART & DESIGN	COMMUNICATION DESIGN	2076	MEDIA DESIGN 2	3.0	Wed03-10(예 802)	김지윤	Students are introduced to the field of media design as well as new technology and basic theories.	Theory+Practice	Communication design students only
283	ART & DESIGN	COMMUNICATION DESIGN	2077	MEDIA DESIGN 2	3.0	Thu03-10(예 816)	김지윤	Students are introduced to the field of media design as well as new technology and basic theories.	Theory+Practice	Communication design students only
284	ART & DESIGN	COMMUNICATION DESIGN	2078	MEDIA DESIGN 2	3.0	Thu11-18(예 816)	김지윤	Students are introduced to the field of media design as well as new technology and basic theories.	Theory+Practice	Communication design students only
285	ART & DESIGN	COMMUNICATION DESIGN	3703	3D GRAPHICS DESIGN 2	3.0	Fri01-08(예 816)	권형준	Advanced study on techniques for producing of digital 3D animation including production, theory and application of computer program.	Theory+Practice	Communication design students only
286	ART & DESIGN	COMMUNICATION DESIGN	3704	3D GRAPHICS DESIGN 2	3.0	Fri11-18(예 816)	권형준	Advanced study on techniques for producing of digital 3D animation including production, theory and application of computer program.	Theory+Practice	Communication design students only
287	ART & DESIGN	COMMUNICATION DESIGN	3714	TYPOGRAPHY 2	3.0	Thu01-08(예 822)	박경식	Understanding of typography as visual communication language. Specially Focusing on digital typography.	Theory+Practice	Communication design students only
288	ART & DESIGN	COMMUNICATION DESIGN	3715	TYPOGRAPHY 2	3.0	Fri01-08(예 822)	박경식	Understanding of typography as visual communication language. Specially Focusing on digital typography.	Theory+Practice	Communication design students only
289	ART & DESIGN	COMMUNICATION DESIGN	3720	MIXED-MEDIA DESIGN	3.0	Wed01-08(예 816)	김지현	Mixed-media Design introduces a wide variety of mediums, encouraging students to experiment and combine numerous mediums.	Theory+Practice	Communication design students only
290	ART & DESIGN	COMMUNICATION DESIGN	3721	MIXED-MEDIA DESIGN	3.0	Wed11-18(예 816)	김지현	Mixed-media Design introduces a wide variety of mediums, encouraging students to experiment and combine numerous mediums.	Theory+Practice	Communication design students only
291	ART & DESIGN	COMMUNICATION DESIGN	3722	MEDIA DESIGN STUDIO 2	3.0	Wed11-18(예 824)	유우종	This studio class brings together all the disciplines, combining broadcasting, telecommunications, web as well as traditional media for a holistic design approach.	Theory+Practice	Communication design students only
292	ART & DESIGN	COMMUNICATION DESIGN	3723	MEDIA DESIGN STUDIO 2	3.0	Fri11-18(예 824)	유우종	This studio class brings together all the disciplines, combining broadcasting, telecommunications, web as well as traditional media for a holistic design approach.	Theory+Practice	Communication design students only
293	ART & DESIGN	CONTEMPORARY ARTS	3624	DIGITAL EDITING	3.0	Tue01-08(예 222)	구자영	Training on the basic video art	Theory+Practice	Art & Design college students only
294	ART & DESIGN	CONTEMPORARY ARTS	3625	DIGITAL EDITING	3.0	Tue11-18(예 222)	나대운	Training on the basic video art	Theory+Practice	Art & Design college students only
295	ART & DESIGN	CONTEMPORARY ARTS	3629	MIXED MEDIA STUDIES 2	3.0	Wed03-10(예 308)	김지현	Studying the hybrid assemblage of things	Theory+Practice	Contemporary arts students only
296	ART & DESIGN	CONTEMPORARY ARTS	3630	IMPROVED TWO DIMENSIONAL STUDIES 2	3.0	Thu11-18(예 309)	고현	Reconstructing the structure of picture plane through various materials	Theory+Practice	Contemporary arts students only

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297	ART & DESIGN	CONTEMPORARY ARTS	3631	SPECIAL EFFECT	3.0	Mon11-18(예 222)	백주미	Studying the Special Effect in Video Art	Theory+Practice	Contemporary arts students only
298	ART & DESIGN	CONTEMPORARY ARTS	3633	THREE-DIMENSIONAL STUDIES 2	3.0	Tue11-18(예 304)	박지훈	Training of Three-Dimensional Studies	Theory+Practice	Art & Design college students only
299	ART & DESIGN	CONTEMPORARY ARTS	3634	THREE-DIMENSIONAL STUDIES 2	3.0	Thu11-18(예 304)	박지훈	Training of Three-Dimensional Studies	Theory+Practice	Art & Design college students only
300	ART & DESIGN	CONTEMPORARY ARTS	3640	AVID EDITING	3.0	Fri01-08(예 222)	구자영	Studying the Advanced Editing Tech. with AVID	Theory+Practice	Contemporary arts students only
301	ART & DESIGN	FILM	3676	BUSINESS OF THE FILM INDUSTRY	3.0	Tue11-16(예 414)	여 Fri 미	Emphasis on the business of the film industry for the domestic and the international.	Theory	Film students only
302	ART & DESIGN	FILM	3677	CINEMATOGRAPHY	3.0	Fri03-10(예 220)	이종국	Emphasis on cinematography : camera, film, exposure, developing and composition.	Theory+Practice	Film students only
303	ART & DESIGN	FILM	3682	METHOD ACTING	2.0	Tue11-16(예 103)	조성덕	Method is famous for hollywood film acting style and also for realistic acting style.	Theory+Practice	Film students only
304	ART & DESIGN	INDUSTRIAL DESIGN	3576	USER INTERFACE PROTOTYPING	3.0	Tue03-10(예 702)	강성중	In this course, the students develop user interface design according to the purposes and study the methods to materialize physical, visual, and auditory interface, utilizing integrated media sources.	Theory+Practice	
305	ART & DESIGN	INDUSTRIAL DESIGN	3578	UX DESIGN WORKSHOP	3.0	Wed01-08(예 702)	강성중	In this course, the students will not only study software technology for the operation and composition method of digital hardware which can virtualize UX design, but also experiment experience design by creating works through the process of idea creation, design development, and prototype manufacture.	Theory+Practice	
306	ART & DESIGN	INDUSTRIAL DESIGN	3579	UX DESIGN WORKSHOP	3.0	Fri11-18(예 715)	강슬기	In this course, the students will not only study software technology for the operation and composition method of digital hardware which can virtualize UX design, but also experiment experience design by creating works through the process of idea creation, design development, and prototype manufacture.	Theory+Practice	
307	ART & DESIGN	INDUSTRIAL DESIGN	3580	UX DESIGN STUDIO 2	3.0	Wed11-18(예 715)	강성중	In UX Design Studio 1, Each students will create and produce design works instead of writing a graduation thesis. Students will materialize the original problem-solving method explored in UX Design Studio 1 class into tangible design and verify it as a completed work.	Theory+Practice	
308	ART & DESIGN	INDUSTRIAL DESIGN	3581	DESIGN & TECHNOLOGY	2.0	Tue13-18(예 413)	김현정	In this course, related technologies including engineering, marketing, psychology for planning, designing, manufacturing, and deployment in the design development process will be studied and methods to cooperate with these technologies and design will be explored.	Theory+Practice	
309	ART & DESIGN	INDUSTRIAL DESIGN	3582	DESIGN PRESENTATION	2.0	Mon03-08(예 413)	김윤전	Students study fundamental element for presentation which is important communication tool to inform design and persuade audience. And students practice methods for effective presentation in accordance with audience.	Theory+Practice	
310	ART & DESIGN	MOVING IMAGE	2065	FREE-FORM ANIMATION	2.0	Thu09-14(예 B101)	김시현	Emphasis on the timing in free styles animation form.	Theory+Practice	Moving Image students only
311	ART & DESIGN	MOVING IMAGE	2066	FREE-FORM ANIMATION	2.0	Fri09-14(예 B101)	서명주	Emphasis on the timing in free styles animation form.	Theory+Practice	Moving Image students only
312	ART & DESIGN	MOVING IMAGE	3651	THESIS CONCEPT SEMINAR	3.0	Tue03-10(예 217)	박상현	Emphasis on setting up concept and story for thesis.	Theory+Practice	Moving image students only
313	ART & DESIGN	MOVING IMAGE	3657	DIGITAL MOTION PICTURE WORKSHOP 2	3.0	Tue11-18(예 221)	허상범	Basic digital motion picture workshop required by the major.	Theory+Practice	Moving image students only
314	ART & DESIGN	MOVING IMAGE	3658	DIGITAL MOTION PICTURE WORKSHOP 2	3.0	Wed03-10(예 221)	한요한	Basic digital motion picture workshop required by the major.	Theory+Practice	Moving image students only

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315	ART & DESIGN	MOVING IMAGE	3661	MOTION GRAPHICS	3.0	Tue11-18(예 306)	최승원	Students learn a wide range of post-production digital techniques for 2D animation, compositing (layering, collaging), and creating visual effects for video productions. Students produce projects that incorporate manipulated still images, animation, desktop video, and audio. Screenings and analysis focus on the use of such techniques in the world of motion graphics and visual effects.	Theory+ Practice	Moving image students only
316	ART & DESIGN	MOVING IMAGE	3662	MOTION GRAPHICS	3.0	Fri11-18(예 306)	최승원	Students learn a wide range of post-production digital techniques for 2D animation, compositing (layering, collaging), and creating visual effects for video productions. Students produce projects that incorporate manipulated still images, animation, desktop video, and audio. Screenings and analysis focus on the use of such techniques in the world of motion graphics and visual effects.	Theory+ Practice	Moving image students only
317	ART & DESIGN	MOVING IMAGE	3669	DIGITAL INTERACTIVE ANIMATION 2	3.0	Mon11-18(예 221)	박재완	This course is designed to introduce the student to the language of the moving image. The course will define and differentiate the two dominant forms of moving image: film and video, and begin a consideration of new and expanding forms for the moving image.	Theory+ Practice	Moving image students only
318	ART & DESIGN	MOVING IMAGE	3670	INTERACTIVE SCRIPT	3.0	Mon19-22(예 221)	박재완	In this lecture, we study the basic interactive functions and principles using adobe flash and action script.	Theory+ Practice	Moving image students only
319	ART & DESIGN	TEXTILE DESIGN	3606	TEXTILES APPLICATION	3.0	Wed11-18(예 521)	김화연	This course is designed to allow students to explore various textile materials and techniques to develop creative and new textile materials.	Theory+ Practice	
320	ART & DESIGN	TEXTILE DESIGN	3608	SURFACE DESIGN 2	3.0	Tue11-18(예 617)	김재원	students are required to create their own textile pattern with modern sensibility. Based on traditional pattern arrangement and color scheme.	Theory+ Practice	
321	ART & DESIGN	TEXTILE DESIGN	3611	FIELD STUDY	3.0	Wed11-18(예 520)	김성달	Students are encouraged to have experience of real market through internship.	Theory+ Practice	
322	ART & DESIGN	TEXTILE DESIGN	3612	KNIT 1	3.0	Thu01-08(예 520)	김성달	Students will acquire their knowledge, skill and critique of professional Dyeing process for the superior textile industry.	Theory+ Practice	
323	ART & DESIGN	TEXTILE DESIGN	3613	KNIT 1	3.0	Thu11-18(예 520)	김성달	Students will acquire their knowledge, skill and critique of professional Dyeing process for the superior textile industry.	Theory+ Practice	
324	ART & DESIGN	TEXTILE DESIGN	3614	WEAVING DESIGN 2	3.0	Fri01-08(예 520)	김호진	Students will develop creative woven textile design with their own concept.	Theory+ Practice	
325	ART & DESIGN	TEXTILE DESIGN	3615	CONSTRUCTED TEXTILE STUDY	3.0	Tue11-18(예 520)	김성달	Students explore technical, conceptual issues and innovative application of materials for constructed textile design based on their identity.	Theory+ Practice	
326	ART & DESIGN	TEXTILE DESIGN	3618	TEXTILE MATERIAL PROJECT 2	3.0	Tue11-18(예 521)	홍성숙	Students will create artistic commercial textile products using their own textile materials collection for the graduation exhibition.	Theory+ Practice	
327	ART & DESIGN	TEXTILE DESIGN	3620	TEXTILE PRESENTATION	3.0	Mon11-18(새 304)	전유미	This course aims to enhance ability to create professional portfolio and presentation using advanced CAD.	Theory+ Practice	
328	ART & DESIGN	TEXTILE DESIGN	3621	TEXTILE CRAFT PRODUCT DESIGN	3.0	Thu11-18(예 521)	한왕모	This course focuses on the development of creative textile craft product design using various materials and techniques.	Theory+ Practice	
329	BIOSCIENCE & BIOTECHNOLOGY	BIOLOGICAL SCIENCES	3852	IMMUNOLOGY	3.0	Tue01-03(이 B104), Thu04-06(이 B104)	조명환	This course is intended as an introductory text for use in immunology courses for advanced undergraduate biology students, pre-medical students, and graduate students who want to know more about the immune system. It attempts to present the field of immunology from a consistent viewpoint, that of the host's interaction with an environment containing many species of potentially harmful microbes.	Theory	
330	BIOSCIENCE & BIOTECHNOLOGY	BIOLOGICAL SCIENCES	3853	IMMUNOLOGY	3.0	Tue04-06(이 B104), Thu01-03(이 B104)	조명환	This course is intended as an introductory text for use in immunology courses for advanced undergraduate biology students, pre-medical students, and graduate students who want to know more about the immune system. It attempts to present the field of immunology from a consistent viewpoint, that of the host's interaction with an environment containing many species of potentially harmful microbes.	Theory	

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331	BIOSCIENCE & BIOTECHNOLOGY	BIOLOGICAL SCIENCES	3858	BIOCHEMISTRY 2	3.0	Mon01-03(이 B104), Wed04-06(이 B104)	조명환	Basic principles and experiments in biochemistry, emphasizing the molecular structure, function, and metabolism of carbohydrates, lipids, proteins, and nucleic acids.	Theory	
332	BIOSCIENCE & BIOTECHNOLOGY	BIOLOGICAL SCIENCES	3859	BIOCHEMISTRY 2	3.0	Mon04-06(이 B104), Wed01-03(이 B104)	조명환	Basic principles and experiments in biochemistry, emphasizing the molecular structure, function, and metabolism of carbohydrates, lipids, proteins, and nucleic acids.	Theory	
333	BIOSCIENCE & BIOTECHNOLOGY	BIOLOGICAL SCIENCES	3860	NEUROBIOLOGY	3.0	Mon10-12(이 B104), Thu10-12(이 B104)	정지혜	Introduction to principles in neurobiology, including cellular, anatomical, molecular and developmental aspect of the nervous system(CNS, PNS), signalling within and between nerve cells, and on behavior, and brain science.	Theory	
334	BIOSCIENCE & BIOTECHNOLOGY	BIOLOGICAL SCIENCES	3868	PROTEOMICS AND EXPERIMENT	3.0	Mon05-08(이실 401), Wed01-04(산학 111)	강린우	The purpose of this class is to study life at the level of protein with basic theories and experimental methods, which includes protein expression, protein purification, structure and function of protein, and experimental methods.	Theory+ Practice	
335	BIOSCIENCE & BIOTECHNOLOGY	BIOLOGICAL SCIENCES	3869	PROTEOMICS AND EXPERIMENT	3.0	Mon13-16(이실 401), Wed09-12(이 B104)	강린우	The purpose of this class is to study life at the level of protein with basic theories and experimental methods, which includes protein expression, protein purification, structure and function of protein, and experimental methods.	Theory+ Practice	
336	BIOSCIENCE & BIOTECHNOLOGY	SYSTEMS BIOTECHNOLOGY	4115	INSTRUMENT ANALYSIS AND EXPERIMENTS	3.0	Wed13-16(산학 713), Fri03-06(산학 704)	김성현	This course concerns with operation and analysis principles of various instruments that are frequently used in bioscience and biotechnology. Focus will be made so that students can successfully apply their knowledge acquired in the class to practical problems through actual instrumental analysis.	Theory+ Practice	
337	BIOSCIENCE & BIOTECHNOLOGY	SYSTEMS BIOTECHNOLOGY	4124	DEVELOPMENTAL BIOLOGY	3.0	Mon10-12(산학 222), Wed07-09(산학 222)	심용희	This course will provide concepts on gamete formation, fertilization, differentiation, organ formation and sex determination in model organisms such as Drosophila, C. elegans, plants, and mammals, and the molecular mechanisms of the developmental processes of them will be discussed.	Theory	
338	BIOSCIENCE & BIOTECHNOLOGY	SYSTEMS BIOTECHNOLOGY	4128	COLLOQUIUM	1.0	Thu13-16(산학 713)	김성현	All of participating students will present their research work of BACHELOR'S THESIS in bioscience and biotechnology. Through this activity, students will learn how to prepare a scientific presentation and to actually present it in front of audience.	Theory	
339	BIOSCIENCE & BIOTECHNOLOGY	SYSTEMS BIOTECHNOLOGY	4129	GENERAL CHEMISTRY LAB. 2	1.0	Wed06-09(산학 704)	여운석	This course provides basic experimental techniques of general chemistry.	Practice+ Experiment	
340	BIOSCIENCE & BIOTECHNOLOGY	SYSTEMS BIOTECHNOLOGY	4130	GENERAL CHEMISTRY LAB. 2	1.0	Mon13-16(산학 704)	전봉현	This course provides basic experimental techniques of general chemistry.	Practice+ Experiment	
341	BIOSCIENCE & BIOTECHNOLOGY	SYSTEMS BIOTECHNOLOGY	4131	GENERAL BIOLOGY LAB 2	1.0	Mon13-16(산학 708)	황용식	This course provides basic experimental techniques of general biology.	Practice+ Experiment	
342	BIOSCIENCE & BIOTECHNOLOGY	SYSTEMS BIOTECHNOLOGY	4132	GENERAL BIOLOGY LAB 2	1.0	Wed06-09(산학 708)	목혜정	This course provides basic experimental techniques of general biology.	Practice+ Experiment	
343	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	0368	ENGLISH DISCUSSION 2	3.0	Fri01-06(산학 208)	이원규	This course is designed for low advanced-level students majoring in Interdisciplinary Studies. It focuses on improving analytical and critical thinking skills, and increasing fluency as well as confidence in English. This is highly interactive course with group and pair work, presentations, and student-centered activities. Students will learn how to express their thought and ideas effectively. Discussion topics include a wide range of college-level subjects and current issues from newspaper articles and Internet news articles. This course must be taken jointly with English Composition 2 so that students are encouraged to write essays on the topics after each session.	Theory	

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344	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	0369	ENGLISH DISCUSSION 2	3.0	Fri10-15(산학 207)	이원규	This course is designed for low advanced-level students majoring in Interdisciplinary Studies. It focuses on improving analytical and critical thinking skills, and increasing fluency as well as confidence in English. This is highly interactive course with group and pair work, presentations, and student-centered activities. Students will learn how to express their thought and ideas effectively. Discussion topics include a wide range of college-level subjects and current issues from newspaper articles and Internet news articles. This course must be taken jointly with English Composition 2 so that students are encouraged to write essays on the topics after each session.	Theory	
345	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	0372	ENGLISH COMPOSITION 2	3.0	Tue15-17(산학 207), Fri07-09(산학 207)	최하영	Based on what students have learned in English Writing 1, this course aims to improve students' critical thinking ability and, thus, their ability to develop complex yet clearly-stated written arguments and interpretations. Students will go through activities such as essay writing, peer review processes, and revision for the goal.	Theory	
346	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	4113	CELL BIOLOGY	3.0	Mon10-12(산학 208), Wed07-09(산학 208)	한예선	This course covers topics on cellular membrane, cell cycle, cytoskeletons, cellular organelles, and signal transduction.	Theory	
347	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	4139	FLUID MECHANICS	3.0	Mon01-03(산학 220), Wed04-06(산학 220)	부디오노	This course is designed to provide knowledge to understand basic concepts of fluid mechanics and physical characteristics of the general flow system. The mechanical principles of real and ideal fluids, and fluid statics and dynamics are taught in this course.	Theory	
348	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	4140	BIOCHEMISTRY 2	3.0	Mon07-09(산학 208), Wed10-12(산학 208)	한예선	Studying biochemistry II is important for those who hope to enter a career in biomedical engineering or biotechnology, which includes the protein synthesis, nucleic acid biotechnology and metabolism.	Theory	
349	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	4144	INTRODUCTION TO TECHNOLOGY FUSION	3.0	Thu13-18(산학 208)	어양담, 한예선, 임상범, 구남서, 박훈철	In this course, the concept of technology fusion is explained and the examples of technology fusion as effective solutions to complicated problems are introduced.	Theory	
350	GLOBAL INTEGRATED STUDIES	INTERDISCIPLINARY STUDIES	4156	GEOMATICS	3.0	Tue04-06(산학 320), Thu01-03(산학 320)	어양담	This course provides the basic concepts and theory of geospatial information, location and geo-coordinate system which are essential to civil and architectural engineering. Students can get the knowledges of measuring equipment by physical and mechanical principles, also study the mathematical concepts for processing of surveying results.	Theory	
351	LIFE & ENVIRONMENTAL SCIENCES	APPLIED BIOSCIENCE	3523	CELL BIOLOGY	3.0	Tue04-06(생 151), Thu01-03(생 151)	이주현	Focused on general feature of plant cell. Course will cover cell cycle, various micro organelles, basic metabolic pathways, cellular trafficking. Theory:100%	Theory	
352	LIFE & ENVIRONMENTAL SCIENCES	APPLIED BIOSCIENCE	3525	PLANT MOLECULAR GENETICS AND BREEDING	3.0	Tue10-12(생 453), Thu10-12(생 453)	이주현	This lecture aims to study the applied science for crop plant breeding based on molecular genetics theory. Molecular marker development for a target trait/gene and its use to classify plant germplasm, to select cross parents and breeding lines, and to identify a specific crop variety are the first category to study. Second is the transgenic breeding together with gene cloning, vector system, transformation and selection, and performance trial. This is a newly developed emerging science in applied bio-science field in 21st century through the world.	Theory	
353	LIFE & ENVIRONMENTAL SCIENCES	APPLIED BIOSCIENCE	3527	FOOD CROPS 2	3.0	Wed04-06(생 253), Fri04-06(생 253)	정일민	This subject will be discussed about basic and professional knowledge about physiology, ecology, morphology and cultivation of major farm products systematically.	Theory	
354	LIFE & ENVIRONMENTAL SCIENCES	APPLIED BIOSCIENCE	3528	NATURAL PRODUCTS FUNCTIONAL SUBSTANCES	3.0	Tue01-03(생 252), Thu04-06(생 252)	정일민	This subject will be discussed about species, function and the use scope back of various functional characteristic material which is produced from metabolic process of the plant, poisonous material, material of medical utilization and other secondary metabolites in medicinal plants.	Theory	

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355	LIFE & ENVIRONMENTAL SCIENCES	APPLIED BIOSCIENCE	3529	INSTRUMENTAL ANALYSIS FUNCTIONAL SUBSTANCES AND LABORATORY	3.0	Mon11-14(생 253), Wed09-12(생 253)	김승현	This course will introduce the theory and applications of various analytical techniques like GC/MS, HPLC/MS, NMR, etc. to investigate natural or synthetic functional substances. Also, This course will present a laboratory practice for an analysis of various functional substances.	Theory+ Practice	
356	LIFE & ENVIRONMENTAL SCIENCES	APPLIED BIOSCIENCE	3530	FUNCTIONAL SUBSTANCES AND METABOLISM	3.0	Mon04-06(생 451), Wed13-15(생 451)	김승현	This course will present an introduction to in vivo human metabolism and nutritional effects of various functional substances.	Theory	
357	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	0142	ORGANIC CHEMISTRY	3.0	Mon04-06(생 452), Wed01-03(생 452)	Fri 영수	This course is about the organic compounds, being the most important chemicals. The course includes definition of organic functional groups, synthesis, and the reactivities of each groups. Part of biomolecules are also included in this course	Theory	
358	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	0152	RESEARCH II FOR DOCTORAL DEGREE	1.0	Wed09-12(생 255)	박세원	This course is to teach/learn the detailed aspects of experiments, result assessment, and the methods to prepare the master's degree thesis.	Practice+ Experiment	
359	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	0158	SELF IMPROVEMENT 2	1.0	Wed09-12(생 301)	김두환	The course is for the development of important skills about the community/social aspects during the university life. And the career development will also be advised.	Practice+ Experiment	
360	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	0159	COMMUNITY LEADERSHIP TRAINING II	1.0	Wed09-12(생 252)	Fri 영수	The course is for the development of important skills about the community/social aspects during the university life. And the career development will also be advised.	Practice+ Experiment	
361	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	2062	BIOINDUSTRY MANAGEMENT 2	3.0	Mon09-14(생 301)	박세원	This course is to learn the general aspects of management/development of bio science-related industry. Outlines and common approaches for the successful management will be advised by CEOs.	Theory	
362	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3534	MOLECULAR BIOLOGY	3.0	Tue01-03(생 253), Thu04-06(생 253)	천세철	Introduction of basic concepts of molecular biology. Topics include: cell division cycle, gene replication, gene expression regulation, translation, post translational modification, sorting and protein turnover, genome structure.	Theory	
363	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3535	GENETICS	3.0	Mon04-06(생 251), Wed01-03(생 251)	김두환	The course is for the development of important skills about the community/social aspects during the university life. And the career development will also be advised.	Theory	
364	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3537	FUNCTIONAL FOODS	3.0	Mon04-06(생 454), Wed01-03(생 454)	최미정	The aims to bring together the results of fundamental and applied research into functional foods (ie those containing various factors to ensure or enhance health) and their development and commercialization in food products. The subject will cover (but will not be restricted to) the fields of plant bioactives; antioxidants and ageing; dietary fibre, prebiotics and functional starches; probiotics and probiotic functional foods; functional lipids; bioactive peptides; vitamins, minerals and botanicals and other dietary supplements; functional beverages and food products; and molecular nutrition and other relevant aspects of disease prevention and treatment.	Theory	
365	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3538	FERMENTATION BIOTECHNOLOGY	3.0	Tue01-03(생 254), Thu04-06(생 254)	이시경	Screening of effective microorganisms, control of microbial metabolism, central dogma, microbial variation, continuous culture, strain development using mutation and gene manipulation, bioreactor are explained, and antibiotics enzyme, organic acid, amino acid produced by different microorganism are lectured on.	Theory	
366	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3543	FERMENTATION CHEMISTRY AND LAB	3.0	Wed01-04(생 255), Thu09-12(생 254)	이시경	This course covers introduction to the structure, basal metabolism and physiological characteristics of microorganisms; Research on bioenergy metabolism, biosynthesis of body components, and formation mechanism of effective fermentation product.	Theory+ Practice	
367	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3544	FOOD PROCESSING	3.0	Mon13-15(생 451), Fri04-06(생 451)	최미정	This course provides the principles, techniques and procedures of food processing, and the theories related to processed products and their storages to enhance their applicabilities and to make students have the knowledge and techniques for development of food.	Theory	
368	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3546	EXPERIMENTAL DESIGN/RESEARCH PRACTICES	2.0	Mon07-10(생 252), Thu09-12(생 252)	최미정	The course is about the appropriate design of experiment, data management, and the practical approaches to prepare the scientific articles.	Theory+ Practice	

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369	LIFE & ENVIRONMENTAL SCIENCES	BIORESOURCES & FOOD SCIENCE	3548	CAREER DEVELOPMENT II	1.0	Wed09-12(생 452)	박석근	The course is for the development of important skills about the community/social aspects during the university life. And the career development will also be advised.	Practice+Experiment	
370	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	0145	NUMERICAL ANALYSIS	3.0	Mon13-15(생 456), Wed13-15(생 456)	김기두	Learn for treating mathematical, scientific, and engineering problems by using numerical analysis techniques	Theory	
371	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	2061	GEO-SPATIAL INFORMATION SYSTEM	3.0	Tue10-15(생 455)	김성준	Learn the principles, theories, and techniques of Geographic Information System	Theory	
372	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	3478	DESIGN OF STEEL STRUCTURES	3.0	Mon04-06(생 253), Wed01-03(생 253)	김기두	Design and behavior of the elements of steel structures, proportioning members and connections using load and resistance factor design. Introduction to allowable stress design. Preliminary design of building frames.	Theory	
373	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	3479	STRUCTURAL MECHANICS & EXERCISES	3.0	Mon09-12(생 456), Wed09-12(생 456)	원종필	This course includes graphical and analytical calculations of forces and displacements in beams, trusses and other structures. Special focus is placed on the statically indeterminate structures.	Theory+Practice	
374	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	3483	DESIGN OF UNDERGROUND STRUCTURES	3.0	Tue10-12(생 451), Thu07-09(생 451)	이석원	Design and analysis of various type of underground structures.	Theory	
375	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	3486	CIVIL AND ENVIRONMENTAL SYSTEMS ENGINEERING CAPSTONE DESIGN	1.0	Wed13-16(생 454)	박기영	Theory and practice of defining and planning civil and environmental system engineering. Selection of capstone design project or cooperative education position for capstone project. Participation in a project team to develop the planning for the capstone project. Development of an organized project file containing letters, memos, notes and computations for the planning and design that can become part of a project record. Development of drafted plans and written specifications and/or reports to present the completed work to the client.	Practice+Experiment	
376	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	3487	DESIGN OF ENVIRONMENTAL PLANTS	3.0	Mon04-06(생 456), Wed01-03(생 456)	박기영	Unit operations and physical, chemical, and biological processes for in environmental plants ; design of a environmental plants ; site visits to in environmental plants	Theory	
377	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	3488	RIVER ENVIRONMENT PLANNING AND DESIGN	3.0	Mon01-03(생 454), Wed04-06(생 454)	박대룡	Learn about stream and river their environmental friendly rearrangement and management.	Theory+Practice	
378	LIFE & ENVIRONMENTAL SCIENCES	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	4178	TRANSPORTATION PLANNING & DESIGN	3.0	Tue01-06(생 452)	이석원	Geometric Design of highways as related to operation, capacity and safety. Alignment, drainage and pavement design.	Theory	
379	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL HEALTH SCIENCE	3490	PHYSIOLOGY	3.0	Tue04-06(생 255), Thu01-03(생 255)	박신애	This course is designed to provide students with an understanding of the function & regulation of the human body and physiological integration of the organ systems to maintain homeostasis.	Theory	
380	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL HEALTH SCIENCE	3492	WATER QUALITY MANAGEMENT	3.0	Tue10-12(생 255), Thu07-09(생 255)	안윤주	Introduce the importance of water environments, understand the representative water pollutants, and learn how to measure the water quality parameters.	Theory	
381	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL HEALTH SCIENCE	3493	INSTRUMENTAL ANALYSIS CHEMISTRY	3.0	Mon04-06(생 453), Wed01-03(생 453)	윤영대	This course will span theory of operation, instrument design and methodology, and applications of instrumental techniques for the analysis of molecules in environment and health care. Electrochemical methods, spectroscopic methods including infrared, UV/VIS, MS, and NMR; and chromatographic methods of analysis will be covered.	Theory	
382	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL HEALTH SCIENCE	3496	ENVIRONMENTAL HEALTH EPIDEMIOLOGY	3.0	Tue01-03(생 451), Thu04-06(생 451)	윤영대	This course studies the epidemiologic concepts and disease-related stressors, and study the methods how to elucidate the causes of disease.	Theory	

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383	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL HEALTH SCIENCE	3498	TOXICOLOGY LABORATORY	3.0	Tue13-16(생 255), Thu13-16(생 255)	안윤주	Introduce the principle and practice of toxicant analyses and toxicity measurements.	Theory+ Practice	
384	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL HEALTH SCIENCE	3500	ECOLOGICAL HEALING AND RESTORATION	3.0	Tue10-12(생 253), Thu07-09(생 253)	황순진	The class is about ecological healing, restoration and sound management of freshwater ecosystems, and deals mainly with (1) socio-ecological viewpoints in the restoration ecology, 2) techniques and tools for restoration and management of freshwater ecosystems including rivers/streams, lakes/reservoirs and wetlands, 3) implementation and practices of policies of ecological healing.	Theory	
385	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL PLANNING	0153	LANDSCAPE ECOLOGY	3.0	Tue10-12(생 452), Thu13-15(생 452)	이상우	The class is designated to introduce Landscape Ecology and deals with three components of Landscape Ecology including landscape structure, landscape function and landscape changes, as well as their interactions. It also provides students a opportunity to learn about background, history, basic models, and analysis tools of Landscape Ecology.	Theory	
386	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL PLANNING	0157	ECOLOGICAL CITY	3.0	Mon01-03(생 452), Wed04-06(생 452)	안경진	Ecological city has been considered as an alternative to interactions between humans with nature in a sustainable way. This class overviews the backgrounds, theories, models and examples of ecological cities.	Theory	
387	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL PLANNING	3504	COMPUTER APPLICATIONS & PRACTICE	3.0	Wed11-18(생 402)	이상우	Recently the importance of computer application in landscape design and planning have been well recognized in educational and professional society, due to its efficiency in drawing accuracy, producing drawings and data managements. This class aims to introduce computer technologies and softwares frequently used in landscape design and includes many exercises in computer Lab. and studio.	Theory+ Practice	
388	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL PLANNING	3508	LANDSCAPE DESIGN STUDIO II: PLANTING DESIGN	3.0	Mon11-18(생 453)	안경진	This class focuses on the plant design in landscape design. Particularly it is interested in colors, shape, bio-ecological characteristics of plant materials. It also deals with methods to utilize these characteristics of plant materials in design practices.	Theory+ Practice	
389	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL PLANNING	3513	LANDSCAPE DESIGN STUDIO IV: COMMUNITY DESIGN	3.0	Tue10-17(생 151)	안경진	This design studio is a comprehensive design class integrating knowledges of landscape analysis, design process, soils, restoration, aesthetic theory, human behavior, board layout, and design presentation. It requires very intensive exercises in studio environments, and target areas of the class are usually neighborhood parks and community green spaces.	Theory+ Practice	
390	LIFE & ENVIRONMENTAL SCIENCES	ENVIRONMENTAL PLANNING	3518	GEOGRAPHIC INFORMATION SYSTEMS	3.0	Thu02-09(생 351)	이상우	This class covers understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environmental studies, transportation and hazard management; based on learning through class projects.	Theory+ Practice	
391	SCIENCES	CHEMISTRY	2339	ANALYTICAL CHEMISTRY 2	3.0	Wed17-18(이 B102), Thu09-12(이과 201)	권성중	Analytical Chemistry The principles and techniques of chemical analysis ; volumetric, gravimetric and instrumental analysis.	Theory	
392	SCIENCES	CHEMISTRY	3840	ADVANCED INORGANIC CHEMISTRY	3.0	Mon10-12(이 B102), Wed10-12(이 B102)	도정환	Topics in Inorganic Chemistry A discussion of inorganic biochemistry, ligand field theory, molecular orbital theory, and structure determination.	Theory	
393	SCIENCES	CHEMISTRY	3841	PHYSICAL CHEMISTRY III	3.0	Tue17-18(이 B102), Fri09-12(이 B102)	표승문	Physical Chemistry A systematic treatment of the fundamental principles of physical chemistry; the state of matter, thermodynamics, phase equilibria, and chemical equilibria are covered.	Theory	
394	SCIENCES	CHEMISTRY	3847	ENVIRONMENTAL CHEMISTRY	3.0	Tue04-06(이 B102), Thu13-15(종강 204)	김상희	Environmental Chemistry Basic chemistry related to our environment, especially concerning water and air pollution. Regulations and methods to minimize environmental contamination.	Theory	

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395	SCIENCES	CHEMISTRY	3848	ADVANCED CHEMICAL EXPERIMENT	3.0	Mon00(이실 615), Tue00(이실 615), Wed00(이실 615), Wed19(이실 615), Fri00(이실 615), Fri19(이실 615)	표승문	Learning research procedures, methodologies and related experimental techniques in chemical research and understanding recent trends in chemical research by carrying out an experimental research in selected recent topics.	Practice+ Experiment	
396	SCIENCES	CHEMISTRY	3849	ADVANCED MATERIALS CHEMISTRY	3.0	Wed04-06(산학 102), Fri04-06(이 B102)	표승문	Advanced Materials Chemistry Various organic and inorganic advanced materials which is currently important in many applications will be studied in this lecture. Chemi-physical theories and technical aspects will be also covered by dealing with synthesis, structure and characterization of the advanced materials.	Theory	
397	SCIENCES	GEOGRAPHY	3871	ATMOSPHERIC ENVIRONMENT & LAB.	3.0	Mon05-08(이실 108), Wed09-12(이 B108)	문자연, 최영은	Study of the relationship between climate and man's environment: classification of climate; climate change; regional climatology; and applied climatology.	Theory+ Practice	
398	SCIENCES	GEOGRAPHY	3874	CLIMATE CHANGE AND LAB.	3.0	Tue09-12(이실 108), Thu05-08(이 B108)	문자연, 최영은	The climate is always changing. The main purpose of this class is to examine the components of the climate system, the causes of natural climate fluctuation and anthropogenic climate change and it also covers process and mechanism of climate change and its impacts.	Theory+ Practice	
399	SCIENCES	MATHEMATICS	3889	ADVANCED NUMERICAL ANALYSIS	3.0	Tue16-18(이 B108), Thu16-18(이 B107)	김양진	It covers ordinary differential and partial differential equations, a system of linear equations, eigenvalues and computation of matrices.	Theory	
400	SCIENCES	MATHEMATICS	3892	MATHEMATICAL PROGRAMMING	3.0	Tue09-12(이 B108), Thu09-12(이 B108)	김양진	Various mathematical subjects will be approached by using computer programs (C language, Mathematica, Maple, Matlab).	Theory+ Practice	
401	SCIENCES	PHYSICS	0038	PHYSICS & LAB. II	3.0	Mon01-04(이실 105), Mon09-12(공 B566)	자밀무하마드	Continuation of Physics and Experiments I. Electromagnetism, condensed matter, atomic physics, and optics. Prerequisite courses: Physics and Experiments I.	Theory+ Practice	
402	SCIENCES	PHYSICS	0405	PHYSICS & LAB. II	3.0	Tue01-04(이 B103), Tue09-12(이실 107)	자밀무하마드	Continuation of Physics and Experiments I. Electromagnetism, condensed matter, atomic physics, and optics. Prerequisite courses: Physics and Experiments I.	Theory+ Practice	
403	SCIENCES	PHYSICS	2335	INTRODUCTION TO ELECTROMAGNETISM	3.0	Mon08-11(이 B103), Thu08-11(이 B103)	윤종혁	Vector analysis, Maxwell equations, properties of electromagnetic fields, and introduction to electromagnetic radiation.	Theory+ Practice	
404	SCIENCES	PHYSICS	3827	MATHEMATICAL PHYSICS 1	3.0	Tue08-10(이 B103), Thu05-07(이 B103)	오선근	Vector and tensor analyses. Various coordinate systems and transformations. Matrix analysis and group theory. Infinite series. Complex variables, functions, and calculus of residues.	Theory	
405	SCIENCES	PHYSICS	3833	SEMICONDUCTOR PHYSICS	3.0	Wed03-05(산학 114), Fri06-08(세미나실-1)	장성호	In this class, students will learn basic characteristics of semiconductors and quantum mechanical behaviors of semiconductors in nanometer scale.	Theory	
406	SCIENCES	PHYSICS	3834	EXPERIMENTS ON ADVANCED PHYSICS 2	3.0	Mon00-01(이과 505), Tue00(이과 505), Wed00-01(이과 505), Thu00(이과 505), Fri00(이과 505)	이상욱	Advanced fields in modern physics including superconductor, semiconductor, dielectrics, phase transition, particle physics, and relativity, will be discussed. Students will have an opportunity to perform the related experiments or computer simulations.	Practice+ Experiment	
407	SCIENCES	PHYSICS	3836	QUANTUM MATERIALS AND DEVICES	3.0	Wed10-12(세미나실-1), Fri03-05(세미나실-1)	장성호	This class will cover introduction to fabrication and characterization of nano materials where quantum phenomena are frequently observed. In addition, we will introduce fundamental principles, characteristics, and applications of quantum electronic devices, nano mechanical devices, and nano-bio devices.	Theory	
408	SCIENCES	PHYSICS	3837	MEASUREMENTS ON QUANTUM DEVICE CONTROL	3.0	Mon13-18(이 B103), Wed10-15(이 B103)	정현종	This class will cover fundamental principles, functions, and applications of measurement systems required in the area of quantum phases and devices.	Practice+ Experiment	
409	ANIMAL BIOSCIENCE & TECHNOLOGY	ANIMAL BIOTECHNOLOGY	4208	ANIMAL ECOLOGY AND ADAPTATION	3.0	Mon03-06(동 301), Wed09-10(동 301)	하일루	Lectures on relationship between environment and the characteristics of animals, adaptation, evolution, ecosystem and preservation	Theory	

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410	ANIMAL BIOSCIENCE & TECHNOLOGY	ANIMAL BIOTECHNOLOGY	4209	ANIMAL BREEDS	3.0	Thu09-12(동 301), Fri05-06(동 301)	하일루	Lectures on the diverse livestock breeds and their characteristics used for animal industry	Theory	
411	ANIMAL BIOSCIENCE & TECHNOLOGY	ANIMAL SCIENCE & TECHNOLOGY	2057	ANIMAL NUTRITION SCIENCE	3.0	Tue02-04(동 711), Fri02-04(동 711)	김법균	Lecture course on kinds, characteristics, and functions of various nutrients necessary for the maintenance and function of animal body. Will look into the pathways of utilization, excretion and interaction of these nutrients as well as effect of the level of nutrient supply to the body.	Theory	
412	ANIMAL BIOSCIENCE & TECHNOLOGY	ANIMAL SCIENCE & TECHNOLOGY	3454	FEED BIOTECHNOLOGY	3.0	Mon03-05(동 303), Wed03-05(동 303)	김수기	Introduction to feed production techniques using biotechnology and its application.	Theory	
413	ANIMAL BIOSCIENCE & TECHNOLOGY	ANIMAL SCIENCE & TECHNOLOGY	3456	ANALYTICAL CHEMISTRY AND LAB	3.0	Tue13-16(동 303), Thu13-16(동 303)	이경우	Courses provides students for the basic principles of nutrients analysis, and practical laboratory work on the analysis of nutrients, additives and contaminants is given.	Theory+ Practice	
414	ANIMAL BIOSCIENCE & TECHNOLOGY	ANIMAL SCIENCE & TECHNOLOGY	4205	DAIRY HERD MANAGEMENT	3.0	Mon09-10(동 303), Wed11-14(동 303)	이흥구	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	
415	ANIMAL BIOSCIENCE & TECHNOLOGY	BIO-INDUSTRIAL TECHNOLOGIES	0428	COSMECEUTICS	3.0	Mon10-12(동 309), Wed10-12(동 309)	배호재	This course will cover various chemicals, perfumes, cosmetics and microorganisms that making beautiful human bodies. In this course, students will studybasic concepts and knowledge of definitions, types, cosmetic impacts, compositions, and structures of these materials related to cosmeceutics.	Theory	
416	ANIMAL BIOSCIENCE & TECHNOLOGY	BIO-INDUSTRIAL TECHNOLOGIES	2055	BIOINDUSTRY MARKETING	3.0	Mon10-12(동 319), Wed10-12(동 319)	김민경	Bioproduct marketing entails planning, pricing promotion, and distribution of goods and serices created and/or developed in bio-industry.	Theory	
417	ANIMAL BIOSCIENCE & TECHNOLOGY	BIO-INDUSTRIAL TECHNOLOGIES	3438	MICROBIAL GENETIC ENGINEERING	3.0	Tue10-12(동 309), Wed01-03(동 309)	배호재	This course is establishing basic knowledge in genetic engineering with microorganisms, and is studied so as to understand the importance of microbial genetic engineering to the existence of human life. The objective of the course is to introduce microbial genetic engineering, a core subject in the rapidly developing life sciences, to students who have taken general biology.	Theory	
418	ANIMAL BIOSCIENCE & TECHNOLOGY	BIO-INDUSTRIAL TECHNOLOGIES	3441	IMMUNOLOGY	3.0	Tue03-06(동 319), Fri01-02(동 319)	김영봉	This course aims at gaining basic concepts of immune response to infectious agents. Non-specific and specific immunity including humoral and cellular branches of immune response will be studied. Characteristics of invading antigens, and genetic, biochemical, and molecular and cell biological information on structural and functional aspects of genes, proteins, cells, and tissues playing critical roles during immune responses will be major topics of this course.	Theory	
419	ANIMAL BIOSCIENCE & TECHNOLOGY	FOOD SCIENCE & BIOTECHNOLOGY OF ANIMAL RESOURCES	3464	FERMENTATION ENGINEERING	3.0	Mon01-06(동 321)	김기태	This lecture deals with the bioprocess mechanism and production and characteristics of the valuable product using microbial fermentation.	Theory	
420	ANIMAL BIOSCIENCE & TECHNOLOGY	FOOD SCIENCE & BIOTECHNOLOGY OF ANIMAL RESOURCES	3473	ADVANCED FOOD TOXICOLOGY	3.0	Tue11-14(동 321), Wed09-10(동 321)	한성구	This lecture deals with toxic substance, toxic mechanism, and safety in foods.	Theory	
421	ANIMAL BIOSCIENCE & TECHNOLOGY	FOOD SCIENCE & BIOTECHNOLOGY OF ANIMAL RESOURCES	3475	FOOD NANO SCIENCE	3.0	Mon09-12(동 321), Wed05-06(동 321)	한성구	This lecture deals with the basic knowledge of nano technology, application in foods, and nano-food.	Theory	
422	VETERINARY MEDICINE	VETERINARY MEDICINE	0254	VETERINARY MICROBIOLOGY 1 PRACTICE	1.0	Mon13-16(수 207)	이상원	Practice session emphasizes on techniques used in the study of microorganisms.	Practice+ Experiment	
423	VETERINARY MEDICINE	VETERINARY MEDICINE	0255	VETERINARY MICROBIOLOGY 1 PRACTICE	1.0	Mon09-12(수 207)	이상원	Practice session emphasizes on techniques used in the study of microorganisms.	Practice+ Experiment	
424	VETERINARY MEDICINE	VETERINARY MEDICINE	0256	VETERINARY MICROBIOLOGY 1 PRACTICE	1.0	Mon17-19(수 207)	이상원	Practice session emphasizes on techniques used in the study of microorganisms.	Practice+ Experiment	

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425	VETERINARY MEDICINE	VETERINARY MEDICINE	0271	VETERINARY MICROBIOLOGY 1	3.0	Mon04-06(동 710-5), Wed01-03(동 710-5)	이상원	An introduction to the structure, physiology, and genetics of micro organisms, with special consideration given to bacteria of veterinary medical importance and their role in animal disease. Laboratory sessions emphasize techniques used in the study of micro organisms.	Theory	
426	VETERINARY MEDICINE	VETERINARY MEDICINE	0419	VETERINARY MICROBIOLOGY 1 PRACTICE	1.0	Mon20-21(수 207)	이상원	Practice session emphasizes on techniques used in the study of microorganisms.	Practice+Experiment	
427	VETERINARY MEDICINE	VETERINARY MEDICINE	0422	VETERINARY MICROBIOLOGY 1	3.0	Mon01-03(동 710-5), Wed04-06(동 710-5)	이상원	An introduction to the structure, physiology, and genetics of micro organisms, with special consideration given to bacteria of veterinary medical importance and their role in animal disease. Laboratory sessions emphasize techniques used in the study of micro organisms.	Theory	
428	VETERINARY MEDICINE	VETERINARY MEDICINE	2223	VETERINARY PUBLIC HEALTH 2	2.0	Tue09-12(수 306)	서건호, 최농훈	This course is intended to provide general knowledges about the zoonosis which caused by virus, fungi, rickettia, chlamydia and parasites. Epidemics and pathogenic mechanism by the pathogens which listed in the above will be covered.	Theory	
429	VETERINARY MEDICINE	VETERINARY MEDICINE	2224	VETERINARY PUBLIC HEALTH 2	2.0	Tue13-16(수 306)	서건호, 최농훈	This course is intended to provide general knowledges about the zoonosis which caused by virus, fungi, rickettia, chlamydia and parasites. Epidemics and pathogenic mechanism by the pathogens which listed in the above will be covered.	Theory	
430	VETERINARY MEDICINE	VETERINARY MEDICINE	2225	LABORATORY PRACTICE OF VETERINARY PUBLIC HEALTH 2	1.0	Tue21-22(수 210)	서건호, 최농훈	In this laboratory course, student will do have training chances for primary cell culture, cell count, broncho-alveolar lavage, immunohistochemical stain, quantitative analysis of NO, and leukocyte stain.	Practice+Experiment	
431	VETERINARY MEDICINE	VETERINARY MEDICINE	2226	LABORATORY PRACTICE OF VETERINARY PUBLIC HEALTH 2	1.0	Tue19-20(수 210)	서건호, 최농훈	In this laboratory course, student will do have training chances for primary cell culture, cell count, broncho-alveolar lavage, immunohistochemical stain, quantitative analysis of NO, and leukocyte stain.	Practice+Experiment	
432	VETERINARY MEDICINE	VETERINARY MEDICINE	2227	LABORATORY PRACTICE OF VETERINARY PUBLIC HEALTH 2	1.0	Wed21-22(수 210)	서건호, 최농훈	In this laboratory course, student will do have training chances for primary cell culture, cell count, broncho-alveolar lavage, immunohistochemical stain, quantitative analysis of NO, and leukocyte stain.	Practice+Experiment	
433	VETERINARY MEDICINE	VETERINARY MEDICINE	2228	LABORATORY PRACTICE OF VETERINARY PUBLIC HEALTH 2	1.0	Wed19-20(수 210)	서건호, 최농훈	In this laboratory course, student will do have training chances for primary cell culture, cell count, broncho-alveolar lavage, immunohistochemical stain, quantitative analysis of NO, and leukocyte stain.	Practice+Experiment	
434	VETERINARY MEDICINE	VETERINARY MEDICINE	2229	VETERINARY INTERNAL MEDICINE 2	5.0	Mon01-03(수 307), Tue09-11(수 409), Wed09-12(수 307)	정병현, 김하정, 강민희, 이수현	Neurology, respiratory disease, cardiovascular disorders, gastrointestinal diseases, endocrinopathy, nephrology and urology, dermatology, ophthalmology in dogs, cats, large animals, exotics and wild lifes are lectured and noninfectious diseases are also educated.	Theory	
435	VETERINARY MEDICINE	VETERINARY MEDICINE	2230	VETERINARY INTERNAL MEDICINE 2	5.0	Mon04-06(수 307), Tue12-14(수 409), Wed13-16(수 307)	정병현, 김하정, 강민희, 이수현	Neurology, respiratory disease, cardiovascular disorders, gastrointestinal diseases, endocrinopathy, nephrology and urology, dermatology, ophthalmology in dogs, cats, large animals, exotics and wild lifes are lectured and noninfectious diseases are also educated.	Theory	
436	VETERINARY MEDICINE	VETERINARY MEDICINE	2231	VETERINARY INTERNAL MEDICINE 2 PRACTICE	2.0	Thu01-08(수 107)	정병현, 김소영, 김민애, 이수현	Differential diagnosis, definitive diagnosis and prescription, therapeutic skills are lectured and veterinary practice skills are also strengthened.	Practice+Experiment	
437	VETERINARY MEDICINE	VETERINARY MEDICINE	2232	VETERINARY INTERNAL MEDICINE 2 PRACTICE	2.0	Tue17-21(수 103)	정병현, 김소영, 김민애, 이수현	Differential diagnosis, definitive diagnosis and prescription, therapeutic skills are lectured and veterinary practice skills are also strengthened.	Practice+Experiment	
438	VETERINARY MEDICINE	VETERINARY MEDICINE	2233	VETERINARY INTERNAL MEDICINE 2 PRACTICE	2.0	Fri01-08(수 104)	정병현, 김소영, 김민애, 이수현	Differential diagnosis, definitive diagnosis and prescription, therapeutic skills are lectured and veterinary practice skills are also strengthened.	Practice+Experiment	

NO	College	Major at Konkuk	Course No.	Course Name	Credits	Day/Period (classroom)	Instructor	Course Description	Course type	Remarks
439	VETERINARY MEDICINE	VETERINARY MEDICINE	2234	VETERINARY INTERNAL MEDICINE 2 PRACTICE	2.0	Fri09-16(수 104)	정진원, 권기태, 이수환	Differential diagnosis, definitive diagnosis and prescription, therapeutic skills are lectured and veterinary practice skills are also strengthened.	Practice+Experiment	
440	VETERINARY MEDICINE	VETERINARY MEDICINE	2235	VETERINARY INTERNAL MEDICINE 2 PRACTICE	2.0	Fri17-21(수 104)	정진원, 권기태, 이수환	Differential diagnosis, definitive diagnosis and prescription, therapeutic skills are lectured and veterinary practice skills are also strengthened.	Practice+Experiment	
441	VETERINARY MEDICINE	VETERINARY MEDICINE	2236	VETERINARY MICROBIOLOGY 2	3.0	Thu01-03(수 510), Fri04-06(수 510)	이상원	Provides basic knowledge of the common bacterial and fungal diseases of animals, with emphasis on the those present in Korea. Coverage of specific diseases/organisms include: distribution, epidemiology, mechanism of pathogenesis, immunity, diagnosis, and the prevention. Laboratory sessions emphasize the proper selection, collection and transportation of bacteriologic and fungal specimens. Basic processing of clinical/pathological specimens and identification of bacteria and fungal organisms commonly present in those specimens is offered.	Theory	
442	VETERINARY MEDICINE	VETERINARY MEDICINE	2237	VETERINARY MICROBIOLOGY 2	3.0	Thu05-07(수 510), Fri01-03(수 510)	이상원	Provides basic knowledge of the common bacterial and fungal diseases of animals, with emphasis on the those present in Korea. Coverage of specific diseases/organisms include: distribution, epidemiology, mechanism of pathogenesis, immunity, diagnosis, and the prevention. Laboratory sessions emphasize the proper selection, collection and transportation of bacteriologic and fungal specimens. Basic processing of clinical/pathological specimens and identification of bacteria and fungal organisms commonly present in those specimens is offered.	Theory	
443	VETERINARY MEDICINE	VETERINARY MEDICINE	2238	VETERINARY MICROBIOLOGY 2 LABORATORY	1.0	Wed20-21(수 207)	이상원	Laboratory sessions emphasize the proper selection, collection and transportation of bacteriologic fungal specimens. Basic processing of clinical/pathological specimens and identification of bacteria and fungal organisms commonly present in those specimens is offered.	Practice+Experiment	
444	VETERINARY MEDICINE	VETERINARY MEDICINE	2239	VETERINARY MICROBIOLOGY 2 LABORATORY	1.0	Wed09-12(수 207)	이상원	Laboratory sessions emphasize the proper selection, collection and transportation of bacteriologic fungal specimens. Basic processing of clinical/pathological specimens and identification of bacteria and fungal organisms commonly present in those specimens is offered.	Practice+Experiment	
445	VETERINARY MEDICINE	VETERINARY MEDICINE	2240	VETERINARY MICROBIOLOGY 2 LABORATORY	1.0	Wed13-16(수 207)	이상원	Laboratory sessions emphasize the proper selection, collection and transportation of bacteriologic fungal specimens. Basic processing of clinical/pathological specimens and identification of bacteria and fungal organisms commonly present in those specimens is offered.	Practice+Experiment	
446	VETERINARY MEDICINE	VETERINARY MEDICINE	2241	VETERINARY MICROBIOLOGY 2 LABORATORY	1.0	Wed17-19(수 207)	이상원	Laboratory sessions emphasize the proper selection, collection and transportation of bacteriologic fungal specimens. Basic processing of clinical/pathological specimens and identification of bacteria and fungal organisms commonly present in those specimens is offered.	Practice+Experiment	
447	VETERINARY MEDICINE	VETERINARY MEDICINE	2244	VETERINARY PATHOLOGY 2	3.0	Wed04-06(수 307), Thu01-03(수 306)	류영수, 이지영	The purpose of systemic pathology is to apply what students learned in general pathology for the precise understanding of specific disease. Basic concepts and principles of disease will continue to be emphasized. For each organ system we will learn to characterize and classify gross and microscopic lesions, discuss general pathogenesis and immunopathogenesis, and correlated lesions with etiology and clinical sign. We will continue to build upon student knowledge of normal structure and function, to provide a basis to understand disease diagnosis and clinical therapy. Overall, the student skills in recognition and description of lesions, correlations of functional changes with tissue structural alterations and an understanding the wide variety of disease processes in the organ system and animal.	Theory	

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448	VETERINARY MEDICINE	VETERINARY MEDICINE	2245	VETERINARY PATHOLOGY 2	3.0	Wed01-03(수 307), Thu04-06(수 306)	류영수, 이지영	The purpose of systemic pathology is to apply what students learned in general pathology for the precise understanding of specific disease. Basic concepts and principles of disease will continue to be emphasized. For each organ system we will learn to characterize and classify gross and microscopic lesions, discuss general pathogenesis and immunopathogenesis, and correlated lesions with etiology and clinical sign. We will continue to build upon student knowledge of normal structure and function, to provide a basis to understand disease diagnosis and clinical therapy. Overall, the student skills in recognition and description of lesions, correlations of functional changes with tissue structural alterations and an understanding the wide variety of disease processes in the organ system and animal.	Theory	
449	VETERINARY MEDICINE	VETERINARY MEDICINE	2266	VETERINARY PHARMACOLOGY	4.0	Tue01-04(수 306), Thu05-08(수 409)	신호철, 강영선	The physico-chemical properties, mechanistic action, clinical uses and application, side-effects and its treatment of drugs being used in veterinary medicine will be discussed and taught.	Theory	
450	VETERINARY MEDICINE	VETERINARY MEDICINE	2267	VETERINARY PHARMACOLOGY	4.0	Tue05-08(수 306), Thu01-04(수 409)	신호철, 강영선	The physico-chemical properties, mechanistic action, clinical uses and application, side-effects and its treatment of drugs being used in veterinary medicine will be discussed and taught.	Theory	
451	VETERINARY MEDICINE	VETERINARY MEDICINE	2272	VETERINARY SURGERY 2	5.0	Tue04-06(수 410), Tue12-14(수 410), Wed13-16(수 306)	정순욱, 다정진, 한현정, 김휘철	The basic knowledge of causes, clinical symptoms, surgical treatment, and prognosis of systematic diseases in small and large animals.	Theory	
452	VETERINARY MEDICINE	VETERINARY MEDICINE	2273	VETERINARY SURGERY 2	5.0	Tue01-03(수 410), Tue09-11(수 410), Wed09-12(수 306)	정순욱, 다정진, 한현정, 김휘철	The basic knowledge of causes, clinical symptoms, surgical treatment, and prognosis of systematic diseases in small and large animals.	Theory	
453	VETERINARY MEDICINE	VETERINARY MEDICINE	2274	VETERINARY SURGERY 2 PRACTICE	2.0	Thu17-21(수 107)	정순욱, 이아진, 한현정, 김휘철	Basic operative surgical theory and practise of head and neck surgery, thoracic surgery, gastrointestinal surgery, urogenital surgery, musculoskeletal surgery, reconstructive surgery.	Practice+ Experiment	
454	VETERINARY MEDICINE	VETERINARY MEDICINE	2275	VETERINARY SURGERY 2 PRACTICE	2.0	Thu09-16(수 103)	정순욱, 이아진, 한현정, 김휘철	Basic operative surgical theory and practise of head and neck surgery, thoracic surgery, gastrointestinal surgery, urogenital surgery, musculoskeletal surgery, reconstructive surgery.	Practice+ Experiment	
455	VETERINARY MEDICINE	VETERINARY MEDICINE	2276	VETERINARY SURGERY 2 PRACTICE	2.0	Fri17-21(수 107)	정순욱, 이아진, 한현정, 김휘철	Basic operative surgical theory and practise of head and neck surgery, thoracic surgery, gastrointestinal surgery, urogenital surgery, musculoskeletal surgery, reconstructive surgery.	Practice+ Experiment	
456	VETERINARY MEDICINE	VETERINARY MEDICINE	2277	VETERINARY SURGERY 2 PRACTICE	2.0	Fri01-08(수 107)	정순욱, 이아진, 한현정, 김휘철	Basic operative surgical theory and practise of head and neck surgery, thoracic surgery, gastrointestinal surgery, urogenital surgery, musculoskeletal surgery, reconstructive surgery.	Practice+ Experiment	
457	VETERINARY MEDICINE	VETERINARY MEDICINE	2278	VETERINARY CLINICAL PATHOLOGY	2.0	Tue13-16(수 307)	도선희	The mission of the department is to enhance the practice of veterinary medicine through effective interpretation of clinical test results for diagnosis of disease, and through advancing knowledge of clinical chemistry, hematology, diagnostic cytology, clinical microbiology, and clinical parasitology.	Theory	
458	VETERINARY MEDICINE	VETERINARY MEDICINE	2279	VETERINARY CLINICAL PATHOLOGY	2.0	Tue09-12(수 307)	도선희	The mission of the department is to enhance the practice of veterinary medicine through effective interpretation of clinical test results for diagnosis of disease, and through advancing knowledge of clinical chemistry, hematology, diagnostic cytology, clinical microbiology, and clinical parasitology.	Theory	
459	VETERINARY MEDICINE	VETERINARY MEDICINE	2280	VETERINARY CLINICAL PATHOLOGY LABORATORY	2.0	Fri01-08(수 408)	도선희	The laboratory provides clinical skills to apply clinical tests and to interpret test results for diagnosis through understanding of causes and mechanisms of disease in animals.	Practice+ Experiment	
460	VETERINARY MEDICINE	VETERINARY MEDICINE	2281	VETERINARY CLINICAL PATHOLOGY LABORATORY	2.0	Mon01-08(수 408)	도선희	The laboratory provides clinical skills to apply clinical tests and to interpret test results for diagnosis through understanding of causes and mechanisms of disease in animals.	Practice+ Experiment	

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461	VETERINARY MEDICINE	VETERINARY MEDICINE	2282	VETERINARY CLINICAL PATHOLOGY LABORATORY	2.0	Tue17-21(수 408)	도선희	The laboratory provides clinical skills to apply clinical tests and to interpret test results for diagnosis through understanding of causes and mechanisms of disease in animals.	Practice+Experiment	
462	VETERINARY MEDICINE	VETERINARY MEDICINE	2283	VETERINARY CLINICAL PATHOLOGY LABORATORY	2.0	Fri09-16(수 408)	도선희	The laboratory provides clinical skills to apply clinical tests and to interpret test results for diagnosis through understanding of causes and mechanisms of disease in animals.	Practice+Experiment	
463	VETERINARY MEDICINE	VETERINARY MEDICINE	2284	VETERINARY CLINICAL PATHOLOGY LABORATORY	2.0	Fri17-21(수 408)	도선희	The laboratory provides clinical skills to apply clinical tests and to interpret test results for diagnosis through understanding of causes and mechanisms of disease in animals.	Practice+Experiment	
464	VETERINARY MEDICINE	VETERINARY MEDICINE	2287	VETERINARY INFECTIOUS DISEASE 2	3.0	Tue01-03(수 307), Thu04-06(수 307)	이중복	This course introduces the viral infectious diseases of domestic and companion animals. The etiology, epidemiology, pathogenesis, diagnosis, and prevention of diseases are discussed in the course.	Theory	
465	VETERINARY MEDICINE	VETERINARY MEDICINE	2288	VETERINARY INFECTIOUS DISEASE 2	3.0	Tue04-06(수 307), Thu01-03(수 307)	이중복	This course introduces the viral infectious diseases of domestic and companion animals. The etiology, epidemiology, pathogenesis, diagnosis, and prevention of diseases are discussed in the course.	Theory	
466	VETERINARY MEDICINE	VETERINARY MEDICINE	2289	VETERINARY INFECTIOUS DISEASE 2 PRACTICE	1.0	Thu09-12(수 509)	이중복	Basic techniques for sampling and PCR diagnosis of infectious diseases in companion and domestic animals are practiced and its etiologic pathogen is cultured with result of vaccine development.	Practice+Experiment	
467	VETERINARY MEDICINE	VETERINARY MEDICINE	2290	VETERINARY INFECTIOUS DISEASE 2 PRACTICE	1.0	Thu17-19(수 509)	이중복	Basic techniques for sampling and PCR diagnosis of infectious diseases in companion and domestic animals are practiced and its etiologic pathogen is cultured with result of vaccine development.	Practice+Experiment	
468	VETERINARY MEDICINE	VETERINARY MEDICINE	2291	VETERINARY INFECTIOUS DISEASE 2 PRACTICE	1.0	Thu13-16(수 509)	이중복	Basic techniques for sampling and PCR diagnosis of infectious diseases in companion and domestic animals are practiced and its etiologic pathogen is cultured with result of vaccine development.	Practice+Experiment	
469	VETERINARY MEDICINE	VETERINARY MEDICINE	2292	VETERINARY INFECTIOUS DISEASE 2 PRACTICE	1.0	Thu20-21(수 509)	이중복	Basic techniques for sampling and PCR diagnosis of infectious diseases in companion and domestic animals are practiced and its etiologic pathogen is cultured with result of vaccine development.	Practice+Experiment	
470	VETERINARY MEDICINE	VETERINARY MEDICINE	2293	VETERINARY HISTOLOGY 2	2.0	Mon09-12(수 306)	장병준	Histologic structures of cardiovascular system, lymphatic organs, skin, digestive organs, respiratory organs, urinary system, genital system will be studied. Fine structural study of organs will provide useful connections between morphologic structure and functions of them. This subject will provide basic knowledge for physiology, pathology, and other clinical studies.	Theory	
471	VETERINARY MEDICINE	VETERINARY MEDICINE	2294	VETERINARY HISTOLOGY 2	2.0	Fri04-07(수 306)	장병준	Histologic structures of cardiovascular system, lymphatic organs, skin, digestive organs, respiratory organs, urinary system, genital system will be studied. Fine structural study of organs will provide useful connections between morphologic structure and functions of them. This subject will provide basic knowledge for physiology, pathology, and other clinical studies.	Theory	
472	VETERINARY MEDICINE	VETERINARY MEDICINE	2295	VETERINARY HISTOLOGY PRACTICE 2	1.0	Tue05-08(수 408)	장병준	Fine structure of cardiovascular system, lymphatic organs, skin, digestive organs, respiratory organs, urinary system, genital system will be instructed by microscopic observation.	Practice+Experiment	
473	VETERINARY MEDICINE	VETERINARY MEDICINE	2296	VETERINARY HISTOLOGY PRACTICE 2	1.0	Tue01-04(수 408)	장병준	Fine structure of cardiovascular system, lymphatic organs, skin, digestive organs, respiratory organs, urinary system, genital system will be instructed by microscopic observation.	Practice+Experiment	
474	VETERINARY MEDICINE	VETERINARY MEDICINE	2297	VETERINARY HISTOLOGY PRACTICE 2	1.0	Tue09-12(수 408)	장병준	Fine structure of cardiovascular system, lymphatic organs, skin, digestive organs, respiratory organs, urinary system, genital system will be instructed by microscopic observation.	Practice+Experiment	
475	VETERINARY MEDICINE	VETERINARY MEDICINE	2298	VETERINARY HISTOLOGY PRACTICE 2	1.0	Tue13-16(수 408)	장병준	Fine structure of cardiovascular system, lymphatic organs, skin, digestive organs, respiratory organs, urinary system, genital system will be instructed by microscopic observation.	Practice+Experiment	
476	VETERINARY MEDICINE	VETERINARY MEDICINE	2299	VETERINARY ANATOMY 2	3.0	Mon13-18(수 306)	남상섭, 이중환	The gross structures of digestive, respiratory, urinary, reproductive, integumentary, and sensory system of animal body will be instructed with a close relation to functional aspects.	Theory	
477	VETERINARY MEDICINE	VETERINARY MEDICINE	2300	VETERINARY ANATOMY 2	3.0	Mon19-21(수 306)	남상섭, 이중환	The gross structures of digestive, respiratory, urinary, reproductive, integumentary, and sensory system of animal body will be instructed with a close relation to functional aspects.	Theory	

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478	VETERINARY MEDICINE	VETERINARY MEDICINE	2301	VETERINARY ANATOMY PRACTICE 2	2.0	Thu09-16(수 106)	유지은, 남상섭	After studying the structures of dogs as a model animal, ruminants, horses, pigs, and aves will be dissected according to the regional anatomy.	Practice+Experiment	
479	VETERINARY MEDICINE	VETERINARY MEDICINE	2302	VETERINARY ANATOMY PRACTICE 2	2.0	Thu09-16(수 107)	유지은, 남상섭	After studying the structures of dogs as a model animal, ruminants, horses, pigs, and aves will be dissected according to the regional anatomy.	Practice+Experiment	
480	VETERINARY MEDICINE	VETERINARY MEDICINE	2303	VETERINARY ANATOMY PRACTICE 2	2.0	Fri09-16(수 106)	유지은, 남상섭	After studying the structures of dogs as a model animal, ruminants, horses, pigs, and aves will be dissected according to the regional anatomy.	Practice+Experiment	
481	VETERINARY MEDICINE	VETERINARY MEDICINE	2304	AVIAN DISEASE 2	2.0	Mon09-12(수 409)	송창선, 이동훈	It will consist of lectures, slide studies, and case studies. Students will be taught the major avian bacterial and emerging disease epidemiology, etiology, pathogenesis, diagnosis, prevention and control.	Theory	
482	VETERINARY MEDICINE	VETERINARY MEDICINE	2305	AVIAN DISEASE 2	2.0	Mon13-16(수 409)	송창선, 이동훈	It will consist of lectures, slide studies, and case studies. Students will be taught the major avian bacterial and emerging disease epidemiology, etiology, pathogenesis, diagnosis, prevention and control.	Theory	
483	VETERINARY MEDICINE	VETERINARY MEDICINE	2306	AVIAN DISEASE PRACTICE	1.0	Mon17-19(수 103)	송창선, 이동훈	It will consist of lectures and practicals to provide students with practical knowledge of laboratory diagnosis. Students will be taught the isolation and identification of avian pathogens, serology, genetic analysis, tissue culture.	Practice+Experiment	
484	VETERINARY MEDICINE	VETERINARY MEDICINE	2307	AVIAN DISEASE PRACTICE	1.0	Mon20-21(수 103)	송창선, 이동훈	It will consist of lectures and practicals to provide students with practical knowledge of laboratory diagnosis. Students will be taught the isolation and identification of avian pathogens, serology, genetic analysis, tissue culture.	Practice+Experiment	
485	VETERINARY MEDICINE	VETERINARY MEDICINE	2308	AVIAN DISEASE PRACTICE	1.0	Thu22-23(수 103)	송창선, 이동훈	It will consist of lectures and practicals to provide students with practical knowledge of laboratory diagnosis. Students will be taught the isolation and identification of avian pathogens, serology, genetic analysis, tissue culture.	Practice+Experiment	
486	VETERINARY MEDICINE	VETERINARY MEDICINE	2309	AVIAN DISEASE PRACTICE	1.0	Mon22-23(수 103)	송창선, 이동훈	It will consist of lectures and practicals to provide students with practical knowledge of laboratory diagnosis. Students will be taught the isolation and identification of avian pathogens, serology, genetic analysis, tissue culture.	Practice+Experiment	
487	VETERINARY MEDICINE	VETERINARY MEDICINE	2310	ENVIRONMENTAL HYGIENE	2.0	Mon13-16(수 510)	서건호, 최동훈	The purpose of this course include introductions to I) the effects of environment and it's changes on the health and diseases occurrence in animals, and II) water, air, soil contamination problems in modern society.	Theory	
488	VETERINARY MEDICINE	VETERINARY MEDICINE	2311	ENVIRONMENTAL HYGIENE	2.0	Mon09-12(수 510)	서건호, 최동훈	The purpose of this course include introductions to I) the effects of environment and it's changes on the health and diseases occurrence in animals, and II) water, air, soil contamination problems in modern society.	Theory	
489	VETERINARY MEDICINE	VETERINARY MEDICINE	2312	VETERINARY MEDICAL IMAGING	3.0	Mon04-06(수 410), Wed04-06(수 410)	엄기동	This course introduce the basic concepts, image acquisition techniques and handling techniques of imaging data including ultrasound, computed tomography and magnetic resonance imaging.	Theory	
490	VETERINARY MEDICINE	VETERINARY MEDICINE	2313	VETERINARY MEDICAL IMAGING PRACTICE	2.0	Tue17-21(수 410)	엄기동, 박노윤	This course is intended to provide the application methodology for medical imaging equipment and to enrich the capacity of medical imaging interpretation including ultrasound, CT and MR.	Practice+Experiment	
491	VETERINARY MEDICINE	VETERINARY MEDICINE	2314	VETERINARY MEDICAL IMAGING PRACTICE	2.0	Mon09-16(수 410)	엄기동, 박노윤	This course is intended to provide the application methodology for medical imaging equipment and to enrich the capacity of medical imaging interpretation including ultrasound, CT and MR.	Practice+Experiment	
492	VETERINARY MEDICINE	VETERINARY MEDICINE	2315	VETERINARY MEDICAL IMAGING PRACTICE	2.0	Mon17-21(수 410)	엄기동, 박노윤	This course is intended to provide the application methodology for medical imaging equipment and to enrich the capacity of medical imaging interpretation including ultrasound, CT and MR.	Practice+Experiment	
493	VETERINARY MEDICINE	VETERINARY MEDICINE	2412	VETERINARY ANATOMY PRACTICE 2	2.0	Fri09-16(수 103)	유지은, 남상섭	After studying the structures of dogs as a model animal, ruminants, horses, pigs, and aves will be dissected according to the regional anatomy.	Practice+Experiment	

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494	VETERINARY MEDICINE	VETERINARY MEDICINE	2414	VETERINARY MEDICAL IMAGING PRACTICE	2.0	Wed17-21(수 410)	엄기동, 박노훈	This course is intended to provide the application methodology for medical imaging equipment and to enrich the capacity of medical imaging interpretation including ultrasound, CT and MR.	Practice+Experiment	
495	VETERINARY MEDICINE	VETERINARY MEDICINE	2415	VETERINARY MEDICAL IMAGING PRACTICE	2.0	Thu01-08(수 410)	엄기동, 박노훈	This course is intended to provide the application methodology for medical imaging equipment and to enrich the capacity of medical imaging interpretation including ultrasound, CT and MR.	Practice+Experiment	
496	VETERINARY MEDICINE	VETERINARY MEDICINE	2416	VETERINARY SURGERY 2 PRACTICE	2.0	Fri09-16(수 107)	정순옥, 이아진, 한현정, 김휘훈	Basic operative surgical theory and practise of head and neck surgery, thoracic surgery, gastrointestinal surgery, urogenital surgery, musculoskeletal surgery, reconstructive surgery.	Practice+Experiment	
497	VETERINARY MEDICINE	VETERINARY MEDICINE	2425	VETERINARY MEDICAL IMAGING	3.0	Mon01-03(수 410), Wed01-03(수 410)	엄기동	This course introduce the basic concepts, image acquisition techniques and handling techniques of imaging data including ultrasound, computed tomography and magnetic resonance imaging.	Theory	
498	VETERINARY MEDICINE	VETERINARY MEDICINE	3819	VETERINARY EMERGENCY AND CRITICAL CARE MEDICINE	2.0	Mon05-08(수 409)	윤현영, 이아진, 임채영	This lecture introduces general and broad knowledge about prompt emergency care for suddenly develop acute, life threatening injured animals and their life support measurements in the intensive care unit to improve the quality of the animals.	Theory	
499	VETERINARY MEDICINE	VETERINARY MEDICINE	3820	VETEINARY OPHTHALMOLOGY	2.0	Mon01-04(수 409)	김준영, 장화석	Introduction and basic knowledge on various diseases associated with opthamology, including causes, symptoms, medical and surgical treatment.	Theory	
500	VETERINARY MEDICINE	VETERINARY MEDICINE	3822	VETERINARY CLINICAL NUTRITION	2.0	Mon19-20(수 409)	강민희	The purpose of this course is to understand nutritional requirement depending on animal's breed, ages and disease. This course may help students learn the knowledge, which is applied to small animal clinic.	Theory	
501	VETERINARY MEDICINE	VETERINARY MEDICINE	3823	VETERINARY DERMATOLOGY	2.0	Mon19-20(수 307)	김하정	The purpose of this course is to understand mechanism, clinical sign, diagnosis and therapy of dermatologic disease, which is most common subjects in the veterinary medicine.	Theory	
502	COMMERCE & ECONOMICS	ECONOMICS	0109	PRINCIPLES OF ECONOMICS 2	3.0	Fri13-18(상허관 221)	장보충	Overview of the macroeconomic phenomena concerned with the growth and the fluctuations in the economy. Analyzes of how the national income, the aggregate demand(AD), the aggregate supply(AS) and the level of unemployment in the economy are determined.	Theory	Taught in Chinese
503	GLOBAL INTEGRATED STUDIES	INTERNATIONAL TRADE	3385	INTERNATIONAL COMMERCIAL RELATIONS	3.0	Tue07-12 (상허관 106)	김옥	Identifies characteristic features of Korea's commercial relations with its major trading partners as they are influenced by the ever changing global trading environment.	Theory	Taught in Chinese
504	GLOBAL INTEGRATED STUDIES	INTERNATIONAL TRADE	3398	CHINESE ECONOMY	3.0	Wed13-18 (상허관 220)	김옥	Deals with the characteristics and trends of China's external commercial relations, and assesses the effects on the South-East Asian economies of China's emergence as a potential economic giant. Evaluates the Korea-China economic relationship by comparing Korean firms' experiences with those of foreign business concerns in China.	Theory	Taught in Chinese