

Courses in English

(and in Chinese)

Spring Semester 2014

CENTER FOR INTERNATIONAL FACULTY AND STUDENT SERVICES
OFFICE OF INTERNATIONAL AFFAIRS
KONKUK UNIVERSITY

Dear students,

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

This list is current as of 10 February 2014, and changes could have occurred since then.

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

For the most up-to-date details on courses (course 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) courses might be taught only partly in English depending upon the situation of those classes.
2. A "b-learning" course refers to a course where an instructor combines both offline classroom lectures with online materials and activities.

致所有学生

本目录是为了所有的外国学生能够更好地了解本学期的外语授课课程而制定，希望对大家有所帮助。

本目录以2014年2月10日为基准，之后可能有变动。为大家带来不便请谅解。

例如，本目录里所列个别课程在2014年2月10日以后有可能被取消，也可能改成韩语授课。

查找与课程相关的具体信息（上课时间，课程计划，课程内容，授课教材，课程进行方式等），请务必点击进入学校信息系统 <http://kupis.konkuk.ac.kr/sugang> 里面有详细介绍。

如还有疑问（包括技术上的问题），请阅读《*KU HANDBOOK*》，或是到国际文化交流中心寻求帮助。

[Notes]

1. 一些非经营(经济)领域的课程，仅部分使用英语授课。
2. “b-learning”的课程是指以教授课堂教学和网上获取资料两种方式并行的上课方式。

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
1	2	전필	2218	중급회계1	INTERMEDIATE ACCOUNTING 1	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Mon01-03 0900-1030(경영105), Wed04-06 1030-1200(경영105)	오준환	English	Based on the accounting principles cours, the course provides outside uses with the necessary accounting concept for understanding and generating financial information. And this course is designed to educate student in accounting for assets, liabilities and equity based on international financial reporting standards.	Theory	Business administration students first
2	2	전필	2220	중급회계1	INTERMEDIATE ACCOUNTING 1	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Tue10-12 1330-1500(경영203), Thu07-09 1200-1330(경영203)	김진욱	English	Based on the accounting principles cours, the course provides outside uses with the necessary accounting concept for understanding and generating financial information. And this course is designed to educate student in accounting for assets, liabilities and equity based on international financial reporting standards.	Theory	Business administration students first
3	2	전필	2231	운영관리	OPERATIONS MANAGEMENT	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Tue04-06 1030-1500(경영205), Thu01-03 0900-1030(경영205)	김우봉	English	In every managing activity of not only every business production, but many other nonprofit organizations such as hospital, education, public service etc., understanding processes and/or systems in a scientific and systematic way is essential to effectively and efficiently make decisions. Issues of operations and/or positioning (system) strategy, capacity planning, location, layout, and scheduling etc., including various innovative techniques and decision making models, are treated in this course. This course is one of core business classes, so every business students are required to apply.	Theory	Business administration students first
4	2	전필	2243	미시경영조직론	MICRO-ORGANIZATION THEORY	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Mon07-09 1200-1330(경영201) (b-러닝), Wed10-12 1330-1500(경영201) (b-러닝)	오세형	English	Problems of organization and reality of organization, with special focus on the individuals and groups within organization. Micro-organization is concerned with such topics as individuals motivation, learning, perception, job attitudes, personality, leadership, formal and informal groups, interactive behavior and conflict and group dynamics.	Theory	Business administration students first
5	2	전필	2244	미시경영조직론	MICRO-ORGANIZATION THEORY	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Mon10-12 1330-1500(경영201) (b-러닝), Wed07-09 1200-1330(경영201) (b-러닝)	오세형	English	Problems of organization and reality of organization, with special focus on the individuals and groups within organization. Micro-organization is concerned with such topics as individuals motivation, learning, perception, job attitudes, personality, leadership, formal and informal groups, interactive behavior and conflict and group dynamics.	Theory	Business administration students first
6	3	전선	3990	조직설계론	ORGANIZATION DESIGN	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Tue07-09 1200-1330(경영105), Thu10-12 1330-1500(경영105)	권기욱	English	Problem of organizing and the phenomenon of organization focusing upon longer units of analysis. Issues such as the appropriate design for the entire organization, the relationship of the organization with external environment, the process of communication and innovation, the impact of organization culture on the effectiveness of organization, production technology, and the effects of organization size.	Theory	Business administration students first
7	3	전선	3991	조직설계론	ORGANIZATION DESIGN	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Tue10-12 1330-1500(경영105), Thu07-09 1200-1330(경영105)	권기욱	English	Problem of organizing and the phenomenon of organization focusing upon longer units of analysis. Issues such as the appropriate design for the entire organization, the relationship of the organization with external environment, the process of communication and innovation, the impact of organization culture on the effectiveness of organization, production technology, and the effects of organization size.	Theory	Business administration students first
8	4	전선	3964	고급회계	ADVANCED ACCOUNTING	3.0	3.0	경영학	BUSINESS ADMINISTRATION	Mon04-06 1030-1200(경영105), Wed01-03 0900-1030(경영105)	오준환	English	This course first covers some topics that was not dealt within the intermediate accounting course previously offered. It also covers certain complicated accounting topics including foreign currency/ foreign financial statements accounting for business combination, and accounting for derivatives.	Theory	Business administration students first

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9	2	전선	3031	IT ENTREPRENEURSHIP	IT ENTREPRENEURSHIP	3.0	3.0	경영정보학	MANAGEMENT INFORMATION SYSTEMS	Tue13-18 1500-1800(경영203)	홍성민	English	Through a series of case study, students will be able to understand IT industry, software, Internet venture and success factors, which is a must for understanding IT entrepreneurship.	Theory	Management information systems students first
10	1	지교	0131	기업영어1	BUSINESS ENGLISH	3.0	3.0	경영-경영, 경영학, 경영정보학, 기술경영학과	BUSINESS ADMINISTRATION, MANAGEMENT INFORMATION SYSTEMS, MANAGEMENT OF TECHNOLOGY	Wed13-18 1500-1800(경영204)	베네트	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
11	1	지교	0132	기업영어1	BUSINESS ENGLISH	3.0	3.0	경영-경영, 경영학, 경영정보학, 기술경영학과	BUSINESS ADMINISTRATION, MANAGEMENT INFORMATION SYSTEMS, MANAGEMENT OF TECHNOLOGY	Thu13-18 1500-1800(경영304)	제이슨유	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
12	1	지교	0133	기업영어1	BUSINESS ENGLISH	3.0	3.0	경영-경영, 경영학, 경영정보학, 기술경영학과	BUSINESS ADMINISTRATION, MANAGEMENT INFORMATION SYSTEMS, MANAGEMENT OF TECHNOLOGY	Fri07-12 1200-1500(경영304)	안드레아	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
13	1	지교	0134	기업영어1	BUSINESS ENGLISH	3.0	3.0	경영-경영, 경영학, 경영정보학, 기술경영학과	BUSINESS ADMINISTRATION, MANAGEMENT INFORMATION SYSTEMS, MANAGEMENT OF TECHNOLOGY	Tue01-06 0900-1200(경영201)	민병철	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
14	1	지교	0135	기업영어1	BUSINESS ENGLISH	3.0	3.0	경영-경영, 경영학, 경영정보학, 기술경영학과	BUSINESS ADMINISTRATION, MANAGEMENT INFORMATION SYSTEMS, MANAGEMENT OF TECHNOLOGY	Tue13-18 1500-1800(경영304)	맥키	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
15	1	지교	0136	기업영어1	BUSINESS ENGLISH	3.0	3.0	경영-경영, 경영학, 경영정보학, 기술경영학과	BUSINESS ADMINISTRATION, MANAGEMENT INFORMATION SYSTEMS, MANAGEMENT OF TECHNOLOGY	Fri01-06 0900-1200(경영105)	조지	English	Business English I prepares students to command effective communication skills in both written and spoken English.	Theory	
16	4	전선	3433	파생금융상품의 이해	FINANCIAL DERIVATIVES	3.0	3.0	경제학	ECONOMICS	Tue01-03 0900-1030(상허관218), Thu04-06 1030-1200(상허관218)	김대환	English	This course presents financial derivatives, including futures and options, from the broad perspective. It provides a survey of both practical and conceptual interest, from the mechanics of trading of financial derivatives to the theoretical pricing of financial derivatives. Students should come away with an understanding of the behavior of financial derivative markets, and how to use them in making business decisions.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
17	4	전선	3434	파생금융상품의 이해	FINANCIAL DERIVATIVES	3.0	3.0	경제학	ECONOMICS	Tue04-06 1030-1200(상허관217), Thu01-03 0900-1030(상허관217)	배진호	English	This course presents financial derivatives, including futures and options, from the broad perspective. It provides a survey of both practical and conceptual interest, from the mechanics of trading of financial derivatives to the theoretical pricing of financial derivatives. Students should come away with an understanding of the behavior of financial derivative markets, and how to use them in making business decisions.	Theory	
18	3	전선	3437	화폐경제학	MONETARY ECONOMICS	3.0	3.0	경제학	ECONOMICS	Tue10-12 1330-1500(상허관218) (b-러닝), Thu07-09 1200-1330(상허관218) (b-러닝)	김원중	English	"This course introduces principles of financial markets and institutions. The following topics will be covered in the class: the role of money in the macroeconomy, various effects of monetary policy, relations among financial institutions, financial system and economic performances. "	Theory	Economics students first
19	2	전선	3599	경제수학	MATHEMATICS FOR ECONOMICS	3.0	3.0	경제학	ECONOMICS	Mon01-03 0900-1030(상허관106), Wed04-06 1030-1200(상허관106)	래프킨	English	To provide a theoretical foundation for commonly used mathematical tools in economics with particular emphasis on matrix applications, rules of differentiation and integration, static optimization, differential equation, and differenced equation.	Theory	
20	3	전선	3554	중급미시	INTERMEDIATE MICROECONOMICS	3.0	3.0	경제학	ECONOMICS	Tue01-03 0900-1030(상허관106), Thu04-06 1030-1200(상허관106)	래프킨	English	This course presents the intermediate-level microeconomic theory and applications. How consumers and firms make decision and interact in the market, under what circumstance the market fails to function properly, what can be done in such situation are the traditional topics of microeconomics. Selected applications in behavioral economics, law and economics, environmental economics, and game theory can be included as well.	Theory	
21	3	전선	3555	경제성장과발전	ECONOMIC GROWTH & DEVELOPMENT	3.0	3.0	경제학	ECONOMICS	Tue07-09 1200-1330(상허관106), Thu10-12 1330-1500(상허관106)	래프킨	English	Persistent income increases and job creations warrant economic growth and development. This course provides an introduction to the elements leading to economic growth and development. Various kinds of capital (physical, human and social overhead capital), are analyzed in the context of economic growth.	Theory	
22	4	전선	3559	국제금융시장론	INTERNATIONAL FINANCIAL MARKETS	3.0	3.0	경제학	ECONOMICS	Mon04-06 1030-1200(상허관218), Wed01-03 0900-1030(상허관218)	유재원	English	"This course examines the structure of foreign exchange markets, currency futures, currency options, and currency swaps."	Theory	
23	4	전선	3572	ECONOMICS OF INNOVATION AND INTERNATIONAL TRADE	ECONOMICS OF INNOVATION AND INTERNATIONAL TRADE	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Mon07-09 1200-1330(상허관107), Wed10-12 1330-1500(상허관107)	레데스마	English	The course serves as an introduction to the role of technological innovation in the development of a market or industry and its consequences on trade among nations. It highlights the factors and dynamics that foster the growth of technology in innovative companies and businesses and their consequences on society as a whole. Economics is used as the foundation for understanding these dynamics.	Theory	International trade students first
24	4	전선	3573	ECONOMICS OF INNOVATION AND INTERNATIONAL TRADE	ECONOMICS OF INNOVATION AND INTERNATIONAL TRADE	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Fri07-12 1200-1500(상허관107)	세르반테스	English	The course serves as an introduction to the role of technological innovation in the development of a market or industry and its consequences on trade among nations. It highlights the factors and dynamics that foster the growth of technology in innovative companies and businesses and their consequences on society as a whole. Economics is used as the foundation for understanding these dynamics.	Theory	International trade students first
25	2	전선	3574	계량분석	ECONOMETRIC ANALYSIS	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Tue10-12 1330-1500(상허관221), Thu07-09 1200-1330(상허관221)	최필선	English	Exposes students to various mathematical and statistical techniques that will help students equip themselves with necessary skills for theoretical and empirical analysis of management and economics.	Theory	International trade students first

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26	2	전선	3578	국제경영	INTERNATIONAL MANAGEMENT	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Tue13-18 1500-1800(상허관106)	표옥연	English	Provides an analytical approach to understanding global logistics of goods and services, movement of productive factors and strategic management at the level of multinational and international firms.	Theory	International trade students first
27	3	전선	3952	무역보험론	MARINE AND EXPORT INSURANCE	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Tue10-12 1330-1500(상허관220) (b-러닝), Thu07-09 1200-1330(상허관220) (b-러닝)	장동한	English	Enables students to understand the functions of insurance as they arise in various forms of international commercial activities, with particular emphasis on marine insurance which still plays a dominant role in international trade.	Theory	International trade students first
28	4	전선	3954	INTERNATIONAL COOPERATION	INTERNATIONAL COOPERATION	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Mon01-03 0900-1030(상허관218), Wed04-06 1030-1200(상허관218)	레데스마	English	Is designed to broaden the students' practical knowledge on international economic cooperations among private companies and among governmental institutions.	Theory	International trade students first
29	4	전선	3955	INTERNATIONAL COOPERATION	INTERNATIONAL COOPERATION	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Mon04-06 1030-1200(상허관106), Wed01-03 0900-1030(상허관106)	세르반테스	English	Is designed to broaden the students' practical knowledge on international economic cooperations among private companies and among governmental institutions.	Theory	International trade students first
30	2	전선	3957	미시경제학	MICROECONOMICS	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Mon10-12 1330-1500(상허관107), Wed07-09 1200-1330(상허관107)	레데스마	English	This course introduces students to the key microeconomic concepts and their practical applications. The following topics will be covered in class: consumer theory, producer behavior, market structure, general equilibrium, welfare economics, competition and monopoly.	Theory	International trade students first
31	2	전선	3959	비즈니스영어	BUSINESS ENGLISH	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Fri01-06 0900-1200(상허관220)	표옥연	English	Teaches students English speaking and writing skills that they may need in various contexts of international commerce.	Theory	International trade students first
32	2	전선	3961	비즈니스영어	BUSINESS ENGLISH	3.0	3.0	국제무역학	INTERNATIONAL TRADE	Wed01-06 0900-1200(상허관123)	민병철	English	Teaches students English speaking and writing skills that they may need in various contexts of international commerce.	Theory	International trade students first
33	4	전필	2977	세계경제의 주요현안	CONTEMPORARY ISSUES IN THE GLOBAL ECONOMY	3.0	3.0	국제비즈니스	INTERNATIONAL BUSINESS	Fri01-06 0900-1200(상허관107)	세르반테스	English	This is an advanced course that provides an in-depth understanding of cutting-edge issues in the international business area. Students are required to give a presentation on these issues, which are followed by free discussions and critical reviews.	Theory	
34	4	전필	2212	전략경영론	STRATEGIC MANAGEMENT	3.0	3.0	국제비즈니스, 경영학	INTERNATIONAL BUSINESS, BUSINESS ADMINISTRATION	Tue04-06 1030-1200(경영207), Thu01-03 0900-1030(경영207)	김광수	English	Strategic Management aims to help students to have an eye on the choice of firms' strategic direction and the general management of firms under high environmental turbulence. More specifically, Strategic Management is designed to educate students in the strategic management framework of environmental analysis, strategy formulation, strategy implementation, and strategy evaluation/control.	Theory	Business administration students first
35	4	전필	2213	전략경영론	STRATEGIC MANAGEMENT	3.0	3.0	국제비즈니스, 경영학	INTERNATIONAL BUSINESS, BUSINESS ADMINISTRATION	Mon13-16 1500-1700(경영204), Thu17-18 1700-1800(경영204)	김주권	English	Strategic Management aims to help students to have an eye on the choice of firms' strategic direction and the general management of firms under high environmental turbulence. More specifically, Strategic Management is designed to educate students in the strategic management framework of environmental analysis, strategy formulation, strategy implementation, and strategy evaluation/control.	Theory	Business administration students first

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36	3	전선	3498	관리회계	MANAGERIAL ACCOUNTING	3.0	3.0	국제비지니스, 경영학	INTERNATIONAL BUSINESS, BUSINESS ADMINISTRATION	Tue04-06 1030-1200(경영204), Thu01-03 0900-1030(경영204)	유상열	English	Use of accounting data in the internal management planning and control process. Accounting analysis that supports decisions about resource allocation and performances evaluation.	Theory	Business administration students first
37	2	전선	3667	전자상거래와 인터넷무역	ELECTRONIC COMMERCE & INTERNET TRADE	3.0	3.0	국제무역학, 국제비지니스	INTERNATIONAL TRADE, INTERNATIONAL BUSINESS	Mon04-06 1030-1200(상허관101), Wed01-03 0900-1030(상허관101)	남경두	English	Introduces how the automation of commercial transactions using computers and communications technologies change the foundations of commercial transactions, how electronic commerce infrastructure has evolved, and how extensive electronic commerce opportunities will be.	Theory	International trade students first
38	3	전선	3886	재무와회계	INTRODUCTION TO FINANCE & ACCOUNTING	3.0	3.0	국제무역학, 국제비지니스	INTERNATIONAL TRADE, INTERNATIONAL BUSINESS	Wed13-18 1500-1800(상허관220) (b-러닝)	장동한	English	Surveys the functions of investment and financing of a business whose objective is to maximize its MVF (market value of firm), the mechanism of financial statements such as balance sheet (B/S) and income statement (I/S), and the financial analysis tools to evaluate a firm's financial status.	Theory	International trade students first
39	2	전선	3349	영어번역	ENGLISH TRANSLATION	3.0	3.0	국제비지니스, 영어영문학과	INTERNATIONAL BUSINESS, ENGLISH LANGUAGE & LITERATURE	Wed13-18 1500-1800(문213)	김덕래	English	Students are accustomed to theories and principles of translation, and they practice various skills of English translation.	Theory	
40	2	전선	3568	미시경제학	MICROECONOMICS	3.0	3.0	공통사회, 경제학, 국제비지니스	ECONOMICS, INTERNATIONAL BUSINESS	Mon07-09 1200-1330(상허관106), Wed10-12 1330-1500(상허관106)	래프린	English	This course introduces students to the key microeconomic concepts and their practical applications. The following topics will be covered in class: consumer theory, producer behavior, market structure, general equilibrium, welfare economics, competition and monopoly.	Theory	
41	4	전선	3516	기술사업화전략	TECHNOLOGY COMMERCIALIZATION STRATEGY	3.0	3.0	기술경영학과	MANAGEMENT OF TECHNOLOGY	Tue07-09 1200-1330(경영207), Thu10-12 1330-1500(경영207)	송영화	English	This course introduces necessary strategies for commercializing technology either developed or transferred. It covers technology commercialization processes and skills required for developing commercialization strategies, and especially focuses on firms' market strategies for developing, launching, and mass merchandising new products and services.	Theory	
42	3	전선	3522	신기술마케팅	NEW TECHNOLOGY MARKETING	3.0	3.0	기술경영학과	MANAGEMENT OF TECHNOLOGY	Tue10-12 1330-1500(경영304), Thu07-09 1200-1330(경영304)	이영환	English	The major goal of technology management is to enhance the competitive advantage of firm in terms of successful management of technology commercialization. This course teaches the process of technology commercialization, its successful management, and several successful cases.	Theory	
43	1	지교	0058	영어토론1	ENGLISH DISCUSSION 1	3.0	3.0	중국통상-비즈니스	CHINESE COMMERCE AND BUSINESS	Thu07-12 1200-1500(산학207)	김윤지	English	This course is designed for high intermediate 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 1 so that students are encouraged to write essays on the topics after each session.	Theory	Interdisciplinary Studies students only
44	1	지교	0216	영어작문1	ENGLISH COMPOSITION 1	3.0	3.0	중국통상-비즈니스	CHINESE COMMERCE AND BUSINESS	Tue07-09 1200-1330(산학207), Fri10-12 1330-1500(산학207)	최하영	English	This course aims to develop students' English writing skills. In order to develop students' ability to produce logical and clearly-stated written arguments and interpretations, students will practice critical reading, clear thinking, grammar for writing, and other technical skills.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
45	1	지교	0097	경제원론	PRINCIPLES OF ECONOMICS	3.0	3.0	기술경영학과	MANAGEMENT OF TECHNOLOGY	Mon10-12 1330-1500(경영205), Wed07-09 1200-1330(경영205)	박재민	English	The fundamentals of economic concepts and theories. Broad topics of micro-economics at an introductory level.	Theory	
46	2	전필	2125	마케팅	MARKETING	3.0	3.0	기술경영학과	MANAGEMENT OF TECHNOLOGY	Tue13-18 1500-1800(경영205)	박배진	English	The process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services is discussed. The Main topics are product, price, place, promotion, marketing planning, organizing, controlling etc.	Theory	
47	4	전필	2126	전략경영론	STRATEGIC MANAGEMENT	3.0	3.0	기술경영학과	MANAGEMENT OF TECHNOLOGY	Tue04-06 1030-1200(경영304), Thu01-03 0900-1030(경영304)	김정호	English	Strategic Management aims to help students to have an eye on the choice of firms' strategic direction and the general management of firms under high environmental turbulence. More specifically, Strategic Management is designed to educate students in the strategic management framework of environmental analysis, strategy formulation, strategy implementation, and strategy evaluation/control.	Theory	
48	2	전필	2129	기술경영론	MANAGEMENT OF TECHNOLOGY	3.0	3.0	기술경영학과	MANAGEMENT OF TECHNOLOGY	Tue01-03 0900-1030(경영205), Thu04-06 1030-1200(경영205)	송영화	English	It is important for firms to develop new technologies because it fosters economic growth of nations and enhance their competitiveness influencing over industrial productivity. Technology has emerged as the most important resource that contributes directly to socio-economic development, and this necessitates effective management of technology at both national and firm levels. This course provides theoretical basis and practical skill to analyze and manage technology development of firms by acquiring the necessary skills to assess the technological capabilities of firms and/or nations.	Theory	
49	3	전선	3075	과학기술정책론	SCIENCE & TECHNOLOGY AND PUBLIC POLICY	3.0	3.0	행정학	PUBLIC ADMINISTRATION	Mon13-16 1500-1700(상허관318), Thu17-18 1700-1800(상허관318)	김준모	English	Noting the growing importance of science & technology on the change & growth of economy and society, this course focuses on discussing the nature of science & technology, together with major policy issues of science & technology.	Theory	
50	3	전선	3098	현대사회와 리더십	LEADERSHIP IN MODERN SOCIETY	3.0	3.0	행정학	PUBLIC ADMINISTRATION	Wed13-18 1500-1800(상허관314)	우창빈	English	This course examines the major theories and practices of leadership in public and nonprofit organizations. Students will explore the skills and tools necessary to fulfill their role as a leader in modern society.	Theory	
51	4	전선	3136	공공재무관리	FINANCIAL MANAGEMENT IN PUBLIC AND NONPROFIT ORGANIZATIONS	3.0	3.0	행정학	PUBLIC ADMINISTRATION	Tue10-12 1330-1500(상허관320), Thu07-09 1200-1330(상허관320)	이용모	English	In this course, students will be exposed to the key accounting concepts, basic financial statements and analytical techniques required for effective financial management. Using cases, problem sets and lectures, students will gain experience with the basic terminology and tools to read nonprofit and public sector financial statements. The course will also provide students with basic financial management tools including cost accounting, break even analysis, ratio analysis and financial planning/budgeting.	Theory	
52	4	전선	3138	비교행정및정책론	COMPARATIVE PUBLIC ADMINISTRATION & POLICY	3.0	3.0	행정학	PUBLIC ADMINISTRATION	Wed13-18 1500-1800(상허관318)	최영철	English	This course aims to contributing to improving objectivity through reviewing various administrative phenomenon in comparative perspective. It deals with administrative practices as well as theories as to various sub-fields in public administration so that in-depth knowledge regarding methodology and epistemology of public administration can be provided for students.	Theory	
53	4	전선	3140	세계화외지역정책	GLOBALIZATION AND REGIONAL DEVELOPMENT POLICY	3.0	3.0	행정학	PUBLIC ADMINISTRATION	Mon10-12 1330-1500(상허관320), Wed07-09 1200-1330(상허관320)	김준모	English	Policies and strategies of regional development. Spatial structures, interregional movement of labour and capital, and innovation diffusion. Theories of regional development, such as export base model, neoclassical theory, cumulative condensation model, growth center strategy, technopolis, agropolitan strategy, and others.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
54	4	전선	3145	환경과자원 거버넌스	ENVIRONMENT AND RESOURCE GOVERNANCE	3.0	3.0	행정학	PUBLIC ADMINISTRATION	Mon13-18 1500-1800(상허관319)	이도석	English	This course covers from the practices and techniques related to environment policy in Korean context. As the industrialization goes by, the problems of environment hazards in Korea society cannot be overlooked any more. Students will learn the overall process of environment policies as well as the individual policy for environment protection of Korean governments at both the central and local level.	Theory	
55	3	전선	3078	지방자치론	LOCAL ADMINISTRATION	3.0	3.0	행정학, 공동사회	PUBLIC ADMINISTRATION	Fri01-06 0900-1200(상허관318)	유동상	English	Current status of local Government which has been tightly directed by the national government. Democracy of local government in the age of urbanization and local autonomy.	Theory	
56	2	전선	3797	통계수학1	MATHEMATICS FOR STATISTICS 1	3.0	4.0	응용통계학과	APPLIED STATISTICS	Tue07-10 1200-1400(상허관217), Thu11-14 1400-1600(상허관217)	유규상	English	Elementary calculus useful for Statistics will be covered: function, derivatives, applications of derivative, integration, applications of definite integrals etc.	Theory	
57	3	전선	3948	수리통계학1	MATHEMATICAL STATISTICS I	3.0	3.0	응용통계학과	APPLIED STATISTICS	Fri13-18 1500-1800(상허관217)	여성철	English	The basic concepts of probability and topics such as distribution of continuous and discrete types, multivariate distributions, and sampling distributions. In addition, the limit theorems such as law of large number and central limit theorem are studied.	Theory	Applied statistics students first
58	3	전선	3949	수리통계학1	MATHEMATICAL STATISTICS I	3.0	3.0	응용통계학과	APPLIED STATISTICS	Mon13-16 1500-1700(상허관217), Thu17-18 1700-1800(상허관217)	여성철	English	The basic concepts of probability and topics such as distribution of continuous and discrete types, multivariate distributions, and sampling distributions. In addition, the limit theorems such as law of large number and central limit theorem are studied.	Theory	Applied statistics students first
59	4	전선	3950	데이터마이닝	DATAMINING	3.0	3.0	응용통계학과	APPLIED STATISTICS	Tue07-09 1200-1330(상허관101), Thu10-12 1330-1500(상허관101)	권성훈	English	Based on current demanding of data mining, this course introduces basic concepts of data mining and applications. Main focus of this course is the applications of data mining techniques to real data sets using SAS or other statistical packages. In addition to real applications some elementary statistical theory related to data mining will be introduced.	Theory	
60	2	전선	4108	정치학연구방법론	METHODOLOGY IN POLITICAL SCIENCE	3.0	3.0	정치외교학	POLITICAL SCIENCE	Wed01-06 0900-1200(상허관316)	이재욱	English	Political methodology create and develop concepts and analytical methods for scientific or rigorous analysis in other substantive specializations of political science such as Korean Politics, Comparative Politics, and International Relations. It divide into three different methods or research tools: comparative, statistical, and game-theoretic.	Theory	
61	2	전선	3250	소비자경제학	CONSUMER ECONOMICS	3.0	3.0	소비자정보학	CONSUMER INFORMATION SCIENCE	Tue10-12 1330-1500(상허관108), Thu07-09 1200-1330(상허관108)	양해경	English	This subject aims to tackle basic theories of consumer economics and cultivate abilities to apply this to actual life. As such, this subject analyzes consumer behavior and utility maximization of consumers as a subject of economy based on the Microeconomics theory, and especially focuses on the understanding and analysis of social problems related to consumption behavior. This study is one of the subjects about consumer market analysis that it needs knowledge about Economic Theories and Basic Statistics.	Theory	
62	2	전선	3253	디지털상거래와 소비자	DIGITAL COMMERCE AND CONSUMER	3.0	3.0	소비자정보학	CONSUMER INFORMATION SCIENCE	Tue01-03 0900-1030(상허관108), Thu04-06 1030-1200(상허관108)	정석진	English	Through an introduction to the digital commerce including e-commerce, mobile-commerce and T-commerce, consumer related information flow system in the current market can be analyzed through commerce activity.	Theory	
63	3	전선	3258	소비자교육 콘텐츠개발	CONSUMER EDUCATION CONTENTS AND TECHNOLOGY	3.0	3.0	소비자정보학	CONSUMER INFORMATION SCIENCE	Tue10-12 1330-1500(상허관101), Thu07-09 1200-1330(상허관101)	정석진	English	In order to maximize and optimize consumer education, this subject teaches various techniques and contents based on technology, in depth and will try to execute them. Furthermore, it offers educational technology products that can be usefully connected to the actual field of consumer education.	Theory	

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64	4	전선	3260	공공정책과 소비자복지	PUBLIC POLICY AND CONSUMER WELFARE	3.0	3.0	소비자정보학	CONSUMER INFORMATION SCIENCE	Wed07-12 1200-1500(상허관108)	이종인	English	To look into and analyze the current status of the public policy on consumer welfare. To carry out a comparative analysis on the public policy of other countries on consumer welfare. To formulate and establish productive public policy measures for the welfare of Korean consumers.	Theory	
65	4	전선	3263	특수소비자 금융설계	CONSUMER FINANCIAL PLAN FOR THE DISADVANTAGES	3.0	3.0	소비자정보학	CONSUMER INFORMATION SCIENCE	Mon07-12 1200-1500(상허관218)	이재형	English	Grope plans such as financial contemplation and asset management for the special consumers such as elders, disabled and the disadvantaged consumers. Specifically deal with the retire and asset management of the elders.	Theory	
66	4	전선	3264	소비자창업과 마케터	CONSUMER COMMERCE AND MARKETER	3.0	3.0	소비자정보학	CONSUMER INFORMATION SCIENCE	Tue07-09 1200-1330(상허관220), Thu10-12 1330-1500(상허관220)	정석진	English	Examine the current status of the foundation business related consumers such as SOHO (Small Office and Home Office) and predict its theme combined with actual practice. Learn the role and acts of being a fair trade system establishment marketer.	Theory	
67	4	전선	3270	소비자정보 프로젝트2	CONSUMER INFORMATION PROJECT 2	2.0	4.0	소비자정보학	CONSUMER INFORMATION SCIENCE	Fri01-08 0900-1300(상허관218)	류미현, 정석진, 양해경, 이승신, 김시월	English	Through entire coursework, each student group has to present and hand in revised project I through consumer information project I course so that every team can completely fulfill their consumer information research project continued to consumer information project I . This project is a comparable study for the graduation thesis.	Experiment + Practice	Consumer informations science students only
68	4	전선	3336	언어습득과 발달	LANGUAGE ACQUISITION AND DEVELOPMENT	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue13-15 1500-1630(문213), Thu16-18 1630-1800(문211)	신정화	English	The course studies the theories about language acquisition and development, and its related disciplines.	Theory	
69	4	전선	3339	전산영어학	COMPUTATIONAL ENGLISH	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon13-18 1500-1800(법115)	김경희	English	This is an introduction course to computational English. Students will learn various basic computer programming skills and methods using computer programming languages such as Perl and Java in order to design and implement computer linguistic analysis tools. These computer tools have been widely used in the fields of computational linguistics and applied linguistics.	Theory	
70	3	전선	3340	미문학개론	INTRODUCTION TO AMERICAN LITERATURE	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Wed01-06 0900-1200(문208)	김은형	English	A reading of representative works of American writers that have molded American society, character in American culture, history.	Theory	
71	3	전선	3342	영어통사론	ENGLISH SYNTAX	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon07-09 1200-1330(문213), Wed16-18 1630-1800(문208)	안덕호	English	A lively and up-to-date introduction to contemporary work on transformational grammar. Four main topics: the goal of linguistic theory, syntactic structure, the nature and role of the lexicon, and the function of transformations and the principles governing their application.	Theory	
72	3	전선	3345	SHAKESPEARE	SHAKESPEARE	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon13-15 1500-1630(문213), Fri16-18 1630-1800(문213)	강형민	English	A study of Shakespeare's dramatic literature through his representative tragedies and comedies: Hamlet, Macbeth, King Lear, Othello, and the Romantic comedies.	Theory	
73	3	전선	3346	SHAKESPEARE	SHAKESPEARE	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon16-18 1630-1800(문213), Fri13-15 1500-1630(문213)	강형민	English	A study of Shakespeare's dramatic literature through his representative tragedies and comedies: Hamlet, Macbeth, King Lear, Othello, and the Romantic comedies.	Theory	
74	3	전선	3347	영어음성학	ENGLISH PHONETICS	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue07-09 1200-1330(문211) (b-러닝), Thu07-09 1200-1330(문211) (b-러닝)	한정임	English	This course is an introduction to English phonetics, which is responsible for the basic speech organs, English consonantal and vocalic structures, English prosody such as stress and intonation, and various sandhi phenomena.	Theory	

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75	2	전선	3351	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon01-03 0900-1030(문211), Wed04-06 1030-1200(문211)	도티	English	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
76	2	전선	3352	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon04-06 1030-1200(문211), Wed01-03 0900-1030(문211)	도티	English	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
77	2	전선	3353	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon01-03 0900-1030(문213), Wed04-06 1030-1200(문213)	라이언	English	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
78	2	전선	3354	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon04-06 1030-1200(문213), Wed01-03 0900-1030(문213)	라이언	English	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
79	2	전선	3356	논술영작문	ACADEMIC WRITING	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon10-12 1330-1500(문211), Wed07-09 1200-1330(문211)	라이언	English	This course is designed to accustom students to academic style of English writing starting from paragraph writing through essay and thesis writing.	Theory	
80	2	전선	3357	영미문학의 지적전통	BRITISH/AMERICAN LITERATURE AND WESTERN CLASSICS	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Fri01-06 0900-1200(문211)	이혜수	English	A basic course that introduces western classics, such as the Bible, Homer, Plato, Greek Tragedy, St. Augustine, or Dante, as a pre-step for the study of British and American literature.	Theory	
81	2	전선	3359	영국소설입문	BRITISH NOVEL 1	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Wed13-18 1500-1800(문211)	이혜수	English	This is an introduction course to British novels. Students read several historically important British novels with a critical view and an analytical method	Theory	
82	2	전선	3360	영국소설입문	BRITISH NOVEL 1	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Fri07-12 1200-1500(문208)	노경은	English	This is an introduction course to British novels. Students read several historically important British novels with a critical view and an analytical method	Theory	
83	2	전선	3362	영문학개론1	INTRODUCTION TO ENGLISH LITERATURE1	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon07-09 1200-1330(문209), Thu10-12 1330-1500(문213)	강형민	English	This course aims at surveying the history of English literature from the medieval age, Renaissance, 17th century, to 18th century, focusing on main writers and their works, in order to deepen our understanding of English culture.	Theory	
84	2	전선	3363	영어학입문	INTRODUCTION TO ENGLISH LINGUISTICS	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon13-15 1500-1630(문211), Wed13-15 1500-1630(문208)	안덕호	English	This course is a survey of general English linguistics, emphasizing the theory and methodology of the traditional central areas of the field-phonetics, phonology, morphology, syntax, semantics and pragmatics.	Theory	
85	2	전선	3364	영어학입문	INTRODUCTION TO ENGLISH LINGUISTICS	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue16-18 1630-1800(문208), Thu10-12 1330-1500(문208)	신정화	English	This course is a survey of general English linguistics, emphasizing the theory and methodology of the traditional central areas of the field-phonetics, phonology, morphology, syntax, semantics and pragmatics.	Theory	
86	2	전선	3365	영미희곡	BRITISH AND AMERICAN PLAYS	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue01-03 0900-1030(문309), Fri04-06 1030-1200(문213)	강형민	English	A study of the dramatic literature of Britain and America and various trends in theatre as represented by major plays of O'Neill, Miller, Williams, and Shaw.	Theory	
87	2	전선	3366	영미희곡	BRITISH AND AMERICAN PLAYS	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue04-06 1030-1200(문309), Fri01-03 0900-1030(문213)	강형민	English	A study of the dramatic literature of Britain and America and various trends in theatre as represented by major plays of O'Neill, Miller, Williams, and Shaw.	Theory	
88	1	전선	3367	영어회화	ENGLISH CONVERSATION	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue01-03 0900-1030(문211), Thu04-06 1030-1200(문211)	라이언	English	This course aims to improve students' speaking skills to an advanced level. Emphasis is placed on discussion of current issues and other professional topics. Participants will be given opportunities to give oral presentations.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
89	1	전선	3368	영어회화	ENGLISH CONVERSATION	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue04-06 1030-1200(문211), Thu01-03 0900-1030(문211)	라이언	English	This course aims to improve students' speaking skills to an advanced level. Emphasis is placed on discussion of current issues and other professional topics. Participants will be given opportunities to give oral presentations.	Theory	
90	1	전선	3369	영어회화	ENGLISH CONVERSATION	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue01-03 0900-1030(문213), Thu04-06 1030-1200(문213)	도티	English	This course aims to improve students' speaking skills to an advanced level. Emphasis is placed on discussion of current issues and other professional topics. Participants will be given opportunities to give oral presentations.	Theory	
91	1	전선	3370	영어회화	ENGLISH CONVERSATION	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Tue04-06 1030-1200(문213), Thu01-03 0900-1030(문213)	도티	English	This course aims to improve students' speaking skills to an advanced level. Emphasis is placed on discussion of current issues and other professional topics. Participants will be given opportunities to give oral presentations.	Theory	
92	1	전선	3371	영어회화	ENGLISH CONVERSATION	3.0	3.0	영어영문학과	ENGLISH LANGUAGE & LITERATURE	Mon10-12 1330-1500(문213), Wed07-09 1200-1330(문213)	도티	English	This course aims to improve students' speaking skills to an advanced level. Emphasis is placed on discussion of current issues and other professional topics. Participants will be given opportunities to give oral presentations.	Theory	
93	3	전선	3399	공연예술기획론	PLANNING OF PERFORMING ART	3.0	3.0	유럽문화학, 문화콘텐츠학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT)	Wed01-06 0900-1200(문306)	한경아	English	This is a comprehensive study on the theories and the actuality about the performing arts, learning the methods to plan and produce actually the contents of performing arts.	Theory	
94	1	전선	3014	영미문화	ENGLISH AND AMERICAN CULTURE	3.0	3.0	영어교육과	ENGLISH EDUCATION	Mon03-08 1000-1300(사201)	크리스찬김	English	This course helps students understand traditional and contemporary British and American culture. It also enhances qualifications of the prospective English teachers.	Theory	English education students only
95	2	전선	3016	영어회화1	ENGLISH CONVERSATION 1	3.0	4.0	영어교육과	ENGLISH EDUCATION	Mon13-16 1500-1700(사101), Thu06-09 1130-1330(사101)	크리스찬김	English	The course provides basic training in listening and speaking English to equip the students with the essential linguistic proficiency necessary for English education majors.	Experiment+ Practice	English education students only
96	2	전선	3018	영어교육 전공독해	READING IN ENGLISH EDUCATION	3.0	3.0	영어교육과	ENGLISH EDUCATION	Tue07-09 1200-1330(사113), Thu10-12 1330-1500(사113)	임인재	English	This course helps students acquire reading skills such as skimming, scanning, or inferring by reading article, editorials and short stories.	Theory	English education students only
97	3	전선	3020	영어작문	ENGLISH COMPOSITION	3.0	4.0	영어교육과	ENGLISH EDUCATION	Mon09-12 1300-1500(사201), Thu13-16 1500-1700(사201)	크리스찬김	English	This course focuses on writing grammatically and stylistically correct sentences and paragraphs. Students also learn the mechanics and conventions of written English.	Experiment + Practice	English education students only
98	3	전선	3021	영어교육방법론	METHODOLOGY OF ENGLISH EDUCATION	3.0	3.0	영어교육과	ENGLISH EDUCATION	Tue07-09 1200-1330(사112), Thu10-12 1330-1500(사112)	조정순	English	This course helps students understand theoretical backgrounds of various L2 teaching methods.	Theory	English education students only
99	4	전선	3024	영어수업설계및 실기2	TESOL PRACTICUM 2	3.0	3.0	영어교육과	ENGLISH EDUCATION	Tue17-18 1700-1800(사112), Fri09-12 1300-1500(사112)	임인재	English	In this course, students learn how to plan lessons and design activities. They practice classroom techniques for promoting interaction, providing feedback, utilizing textbooks, developing their own materials, dealing with mixed ability level groups, incorporating strategy training in lessons, and managing a classroom.	Theory+ Experiment	English education students only
100	4	전선	3026	영어학세미나	SEMINAR IN ENGLISH LINGUISTICS	3.0	3.0	영어교육과	ENGLISH EDUCATION	Fri13-18 1500-1800(사112)	이우승	English	This course discusses methods, findings and problems of current theories and researches on English linguistics.	Theory	English education students only

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
101	3	전필	2005	영어듣기말하기 지도법	TEACHING LISTENING AND SPEAKING IN ENGLISH	3.0	3.0	영어교육과	ENGLISH EDUCATION	Tue10-12 1330-1500(사112), Thu07-09 1200-1330(사112)	임인재	English	The course provides the theoretical and practical aspects of teaching listening and speaking skills, focusing on the development of learning tasks, methodological issues, use of questions in the classroom, the role of dialogues, group work, games, role plays, and so on.	Theory+ Experiment	English education students only
102	4	전선	3380	중등대수교육2	TOPICS IN HIGH SCHOOL ALGEBRA 2	3.0	3.0	수학교육과	MATHEMATICS EDUCATION	Tue01-03 0900-1030(사218), Thu04-06 1030-1200(사218)	김석진	English	We discuss how to teach the arithmetic of equations and numbers in high school. This course also covers the history of equation since Bairglon and Diophantus. Fields, algebraic numbers, transcendental numbers, construction with straight edge and coupars, general equation, solvability by radicals, Galois theory etc.	Theory	
103	2	전선	3384	조합및그래프 이론	COMBINATORIAL MATHEMATICS	3.0	3.0	수학교육과	MATHEMATICS EDUCATION	Tue04-06 1030-1200(사218), Thu01-03 0900-1030(사218)	김석진	English	Combinatorial Mathematics covers topics of discrete mathematics such as permutations and combinations, generating functions, recurrence relations, inclusion and exclusion, and basic concepts and applications of graph theory.	Theory	
104	3	전필	2048	위상수학1	TOPOLOGY I	3.0	3.0	수학교육과	MATHEMATICS EDUCATION	Mon04-06 1030-1200(사216), Wed01-03 0900-1030(사216)	문명호	English	Metric spaces, open sets, closed sets, topology, sequence, continuity, connectedness, separable space, compactness, completion, Hilbert space, contraction, and Urysohn's metrization theorem.	Theory	
105	2	전필	2049	해석학1	ANALYSIS I	3.0	3.0	수학교육과	MATHEMATICS EDUCATION	Mon01-03 0900-1030(사216), Wed04-06 1030-1200(사216)	문명호	English	Real and complex number system, basic topology, sequence, series, continuity, differentiation, and Riemann-Stieltjes integral.	Theory	
106	3	전필	2050	현대대수학	MODERN ALGEBRA	3.0	3.0	수학교육과	MATHEMATICS EDUCATION	Tue10-12 1330-1500(사201), Thu10-12 1330-1500(사201)	최상기	English	Normal subgroups, symmetric groups, general linear group, Cayley's theorem, Sylow's theorem, structure theorem of finitely generated abelian group, ideals, and quadratic integers.	Theory	
107	2	전선	3548	콘텐츠와 창의적노트	IMAGINATION AND CREATIVITY	2.0	2.0	문화콘텐츠학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT)	Wed03-06 1000-1200(문302)	이병민	English	This class provides practical methods to improve creative thinking and discuss about imagination from diverse perspectives.	Theory	
108	3	전선	4012	문화테크놀로지 이해	UNDERSTANDING TO CULTURE TECHNOLOGY	3.0	3.0	문화콘텐츠학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT)	Wed10-12 1330-1500(문302), Fri10-12 1330-1500(문302)	정의준	English	This is a basic understanding of the categories and ranges in CT, developing the executive abilities about technology to create the contents through the examination of CT.	Theory	
109	4	전선	3322	문화콘텐츠 영문리딩	ENGLISH READINGS IN CULTURAL CONTENTS	2.0	2.0	문화콘텐츠학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT)	Tue03-06 1000-1200(문302-1)	유동환	English	This class fosters global perspectives by reading English articles and analyzing English portals regarding cultural contents.	Theory	
110	2	전선	3266	예술콘텐츠연구	CONTENTS IN ARTS	3.0	3.0	문화콘텐츠학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT)	Tue13-18 1500-1800(문302) (b-러닝)	이주은	English	This class explores multiple images and story-telling skills in arts for fostering creative imaginations.	Theory	
111	4	전선	3274	문화콘텐츠현장 실습	PRACTICAL EXERCISE OF CULTURE CONTENT INDUSTRY	3.0	4.0	문화콘텐츠학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT)	Fri03-10 1000-1400(문306)	이병민	English	This is a practical exercise in industrial fields of cultural contents, understanding the actual process to plan and produce the cultural contents as well as the systems of governmental-industrial complex.	Experiment + Practice	
112	2	전선	3229	문화코드와 콘텐츠	CULTURE CODE AND CONTENTS	2.0	2.0	문화콘텐츠학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT)	Tue03-06 1000-1200(문209)	양은희	English	This is a theoretical comprehension for various cultural codes and contents in modern times in order to interpret the particular aspects in cultural contents.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
113	2	전선	3062	한국생활사	HISTORY OF KOREAN LIFE	3.0	3.0	문화콘텐츠, 사학과	DIGITAL CULTURE & CONTENTS (CULTURAL INDUSTRIES & CONTENT), HISTORY	Fri01-06 0900-1200(문308)	이강한	English	This course is to study the lives of Korean people, to study the daily life in history and to consider its future.	Theory	
114	3	전선	3183	광고와 커뮤니케이션	ADVERTISEMENT AND COMMUNICATION	3.0	3.0	커뮤니케이션, 커뮤니케이션학과	COMMUNICATION SCIENCE (JOURNALISM & MASS MEDIA)	Wed07-12 1200-1500(문304)	권은아	English	Study of communication on context of advertisements. Conditions depending various medias, contents of advertisements, psychology of consumers, grammar of technical expression, rhetorics, etc.	Theory	
115	3	전선	3184	광고와 커뮤니케이션	ADVERTISEMENT AND COMMUNICATION	3.0	3.0	커뮤니케이션, 커뮤니케이션학과	COMMUNICATION SCIENCE (JOURNALISM & MASS MEDIA)	Wed13-18 1500-1800(문308)	권은아	English	Study of communication on context of advertisements. Conditions depending various medias, contents of advertisements, psychology of consumers, grammar of technical expression, rhetorics, etc.	Theory	
116	2	전선	3194	언어와심리	LANGUAGE AND PSYCHOLOGY	3.0	3.0	커뮤니케이션학과	COMMUNICATION SCIENCE (JOURNALISM & MASS MEDIA)	Mon13-16 1500-1700(문304), Wed17-18 1700-1800(문304)	홍우평	English	The objective of this course is to examine psycholinguistic models of language communication. Representative approaches to language acquisition and language usage are discussed and critically evaluated.	Theory	
117	4	전선	3071	중국사회경제사	SOCIOECONOMIC HISTORY OF CHINA	3.0	3.0	사학과	HISTORY	Mon10-12 1330-1500(문308), Wed07-09 1200-1330(문308)	한승현	English	Introduction to the formation and development of Chinese social and economic structures, with a focus on its relation to larger historical trends.	Theory	
118	4	전선	3004	교육공학세미나	SEMINAR IN EDUCATIONAL THCHNOLOGY	3.0	3.0	교육공학과	EDUCATIONAL TECHNOLOGY	Mon09-10 1300-1400(사225), Tue01-04 0900-1100(사327/328)	김수욱	English	The seminar provides students with a shared basis for synthesizing their understanding of the educational technology issued. Specially, they will discuss and exchange information for the potential carrier.	Theory	
119	2	전선	3789	법여성학	FEMINIST JURIPRUDENCE	3.0	3.0	법학과	LAW	Tue07-09 1200-1330(법108), Thu10-12 1330-1500(법108)	파트리샤	English	Feminist jurisprudence is based on feminist ideas, and questions about our custom and the legal system. Through this process, this course student can learn principles, and how to realize the real equality between men and women in the law.	Theory	
120	1	지교	0478	물리학및실험1	PHYSICS & LAB. I	3.0	4.0	건축	ARCHITECTURE	Mon09-12 1300-1500(이실107), Thu05-08 1100-1300(건A102)	자말무하마드	English	Systematic presentation and demonstrations of fundamental concepts of physics and their applications to natural phenomena. Students are requested to take this course to acquire basic tools for their major fields. It covers mechanics, waves, thermal and statistical physics.	Theory+ Experiment	
121	1	전선	3476	건축과표현	ARCHITECTURE AND PRESENTATION	3.0	5.0	건축	ARCHITECTURE	Tue11-19 1400-1900(도면제작실1)	계소라	English	A drawing studio course limited to pencil and pen, this introductory class concentrates upon seeing, describing, and analyzing form and function through graphic means and residential box modeling.	Theory+ Experiment	
122	2	전선	3479	건축설계1	ARCHITECTURAL DESIGN 1	4.0	6.0	건축공학	ARCHITECTURAL ENGINEERING	Mon09-19 1300-1900(건A309)	임수현	English	The course offers small-scale studio problems that deal with space, measure, structure, site, tectonics, program, and habitation. These problems address human needs and the interaction of persons with the natural and built environment.	Theory+ Experiment	
123	4	전필	2488	건축공학 종합설계1	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 1	6.0	9.0	건축공학	ARCHITECTURAL ENGINEERING	Mon11-19 1400-1900(건A401), Wed11-18 1400-1800(건A401)	김용식	English	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.	Experiment + Practice	
124	4	전필	2489	건축공학 종합설계1	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 1	6.0	9.0	건축공학	ARCHITECTURAL ENGINEERING	Mon11-19 1400-1900(건A313), Wed11-18 1400-1800(건A313)	김한수	English	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.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
125	4	전필	2490	건축공학 종합설계1	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 1	6.0	9.0	건축공학	ARCHITECTURAL ENGINEERING	Mon11-19 1400-1900(건A301), Wed11-18 1400-1800(건A301)	김경환	English	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.	Experiment + Practice	
126	4	전필	2492	건축공학 종합설계1	ARCHITECTURAL ENGINEERING CAPSTONE DESIGN 1	6.0	9.0	건축공학	ARCHITECTURAL ENGINEERING	Mon11-19 1400-1900(건B704), Wed11-18 1400-1800(건B704)	오종근	English	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.	Experiment + Practice	
127	4	전선	3452	철근콘크리트공학2	REINFORCED CONCRETE ENGINEERING 2	3.0	3.0	건축공학	ARCHITECTURAL ENGINEERING	Tue01-03 0900-1030(건A207), Fri04-06 1030-1200(건A207)	김한수	English	This course teaches the strength, behavior, and design of indeterminate reinforced concrete structures, with primary emphasis on columns and slab systems. It includes analysis and design of foundations and structural walls.	Theory	
128	4	전필	2493	건축설계5	ARCHITECTURAL DESIGN 5	6.0	9.0	건축설계	ARCHITECTURAL DESIGN	Mon11-19 1400-1900(건A405), Thu05-12 1100-1500(건A405)	김정근	English	The objectives of this studio course are to provide experience in urban understanding and architectural design, and gain further insight into the issues of contextualism in design. This course is aimed at organizing integrated comprehension of architectural design in urban, social and cultural context.	Theory+ Experiment	
129	2	전선	3450	건축의장론	THEORY OF ARCHITECTURAL DESIGN	3.0	3.0	건축설계	ARCHITECTURAL DESIGN	Tue01-03 0900-1030(건A303), Thu01-03 0900-1030(건A303)	김정근	English	This course introduces theory of esthetic value standard in architecture design as a visual art. Design and evaluation methods of architecture is studied along with esthetic standards in theological views.	Theory	
130	4	전선	3466	도시설계	URBAN DESIGN	3.0	3.0	건축설계	ARCHITECTURAL DESIGN	Fri07-12 1200-1500(건B201)	김영석	English	This course focuses broadly on design technique, principal of urban design, form and composition elements, and the regulation in urban design and practice in new urban design method.	Theory	
131	3	전선	3480	건축설계3	ARCHITECTURAL DESIGN 3	6.0	9.0	건축설계	ARCHITECTURAL DESIGN	Mon11-19 1400-1900(건A312), Thu05-12 1100-1500(건A312)	박현수, 권인영	English	This is a studio course in which the knowledge, understanding, experience and skill gained in previous courses are integrated and translated into architectural solutions to satisfy given needs, conditions, and means.	Theory+ Experiment	
132	2	전선	3892	건축설계1	ARCHITECTURAL DESIGN 1	4.0	6.0	건축설계	ARCHITECTURAL DESIGN	Tue09-19 1300-1900(건A306)	최주연	English	The course offers small-scale studio problems that deal with space, measure, structure, site, tectonics, program, and habitation. These problems address human needs and the interaction of persons with the natural and built environment.	Theory+ Experiment	
133	2	전선	3893	건축설계1	ARCHITECTURAL DESIGN 1	4.0	6.0	건축설계	ARCHITECTURAL DESIGN	Tue09-19 1300-1900(건A308)	송병준	English	The course offers small-scale studio problems that deal with space, measure, structure, site, tectonics, program, and habitation. These problems address human needs and the interaction of persons with the natural and built environment.	Theory+ Experiment	
134	3	전선	3935	건축설계3	ARCHITECTURAL DESIGN 3	6.0	9.0	건축설계	ARCHITECTURAL DESIGN	Mon11-19 1400-1900(건A311), Thu05-12 1100-1500(건A311)	김유진	English	This is a studio course in which the knowledge, understanding, experience and skill gained in previous courses are integrated and translated into architectural solutions to satisfy given needs, conditions, and means.	Theory+ Experiment	
135	3	전선	3936	건축설계3	ARCHITECTURAL DESIGN 3	6.0	9.0	건축설계	ARCHITECTURAL DESIGN	Mon11-19 1400-1900(건A410), Thu05-12 1100-1500(건A410)	장세영, 신정섭	English	This is a studio course in which the knowledge, understanding, experience and skill gained in previous courses are integrated and translated into architectural solutions to satisfy given needs, conditions, and means.	Theory+ Experiment	
136	3	전선	3937	건축설계3	ARCHITECTURAL DESIGN 3	6.0	9.0	건축설계	ARCHITECTURAL DESIGN	Mon11-19 1400-1900(건A411), Thu05-12 1100-1500(건A411)	이낙경, 박찬식	English	This is a studio course in which the knowledge, understanding, experience and skill gained in previous courses are integrated and translated into architectural solutions to satisfy given needs, conditions, and means.	Theory+ Experiment	
137	3	전선	3940	건축설계3	ARCHITECTURAL DESIGN 3	6.0	9.0	건축설계	ARCHITECTURAL DESIGN	Mon11-19 1400-1900(건A409), Thu05-12 1100-1500(건A409)		English	This is a studio course in which the knowledge, understanding, experience and skill gained in previous courses are integrated and translated into architectural solutions to satisfy given needs, conditions, and means.	Theory+ Experiment	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
138	2	전선	3451	실내공간디자인1	INTERIOR DESIGN 1	3.0	4.0	주거환경	HOUSING ENVIRONMENT	Tue01-04 0900-1100(건B203), Fri01-04 0900-1100(건B203)	김종진	English	An introduction to the basic concepts and principles of design for creating interior spaces. Includes the history of interiors with interior space elements such as lighting, furniture, color and materials.	Theory	
139	3	전선	3455	실내공간디자인2	INTERIOR DESIGN 2	3.0	4.0	주거환경	HOUSING ENVIRONMENT	Tue09-12 1300-1500(건A208), Fri05-08 1100-1300(건A208)	심은주	English	This course focuses on the ability to express interior architecture space based on understanding architecture space. Practice is offered in small and middle scale interior planning with material, furniture, sketch, color of architecture.	Theory	
140	3	전선	3460	현대주거	CONTEMPORARY HOUSING	3.0	3.0	주거환경	HOUSING ENVIRONMENT	Fri09-14 1300-1600(건A208)	박소윤	English	Study progress of housing by changes of social, cultural and economic aspects and life value. Research interaction between modern society and housing and forecast changes in the future.	Theory	
141	2	전선	4163	해석개론1	INTRODUCTION TO ANALYSIS 1	3.0	3.0	수학과	MATHEMATICS	Tue07-09 1200-1330(이과221), Thu07-09 1200-1330(이과221)	최인송	English	It covers basic concepts of classical analysis. The main topics are real number system, sequence, series, continuity, differentiation and integration.	Theory	
142	3	전선	4165	복소수해석론1	COMPLEX ANALYSIS 1	3.0	3.0	수학과	MATHEMATICS	Mon04-06 1030-1200(이B107), Wed04-06 1030-1200(이B107)	고성은	English	It covers basic properties of complex variable functions such as analytic functions, power series, line integrals and Cauchy's theorem.	Theory	
143	4	전선	4166	위상수학특강	TOPICS IN TOPOLOGY	3.0	3.0	수학과	MATHEMATICS	Mon04-06 1030-1200(이과221), Wed04-06 1030-1200(이과221)	이상진	English	It covers homology groups and fundamental groups of topological spaces.	Theory	
144	4	전선	4167	체및갈로와이론	FIELDS AND GALOIS THEORY	3.0	3.0	수학과	MATHEMATICS	Mon07-09 1200-1330(이B107), Wed07-09 1200-1330(이B107)	신동관	English	It covers field extension, algebraic field extension, transcendental numbers, drawing by ruler and compass, zeros of a polynomial, and splitting field. It also covers Galois theory, such as computation of Galois groups, Galois groups of a polynomial, and a formula of solutions of a polynomial of degree less than 5.	Theory	
145	4	전선	4168	현대수학특강1	ADVANCED STUDIES IN MATHEMATICS	3.0	3.0	수학과	MATHEMATICS	Mon13-15 1500-1630(이과221), Wed13-15 1500-1630(이과221)	고성은	English	It studies one topic in detail in the area of modern mathematics.	Theory	
146	2	전선	4171	정수론	NUMBER THEORY	3.0	3.0	수학과	MATHEMATICS	Tue10-12 1330-1500(이B107), Thu10-12 1330-1500(이B107)	최인송	English	It covers basic properties of number theory such as divisor, factorization, residue, congruence, Fermat's theorem and Euler's theorem, primitive roots and index, and simple Diophantine equation. Furthermore it introduces coding theory and application to communication theory.	Theory	
147	3	전선	4173	위상수학1	TOPOLOGY I	3.0	3.0	수학과	MATHEMATICS	Tue04-06 1030-1200(이B107), Thu04-06 1030-1200(이B107)	김태희	English	Metric spaces, open sets, closed sets, topology, sequence, continuity, connectedness, separable space, compactness, completion, Hilbert space, contraction, and Urysohn's metrization theorem.	Theory	
148	3	전선	4175	기초수치해석	BASIC NUMERICAL ANALYSIS	3.0	3.0	수학과	MATHEMATICS	Tue16-18 1630-1800(이B108), Thu16-18 1630-1800(이과221)	김양진	English	It studies methods of finding approximate solutions of mathematically expressed problems. Main topics are solution of equations, interpolation, numerical differentiation and integration, and algorithms of a system of linear equations.	Theory	
149	4	전선	4176	생명수학	BIOMATHEMATICS	3.0	3.0	수학과	MATHEMATICS	Tue10-12 1330-1500(이과221), Thu10-12 1330-1500(이과221)	김양진	English	It covers mathematical modeling, simulation, and ordinary differential equation in biomathematics.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
150	3	전선	4177	군론	GROUPS	3.0	3.0	수학과	MATHEMATICS	Tue13-15 1500-1630(이과221), Thu13-15 1500-1630(이과221)	김태희	English	It covers basic concepts of a group - normal subgroup, cosets, homomorphism and isomorphism, Lagrange theorem and Cayley theorem, symmetric group, Sylow's theorem, and its application, direct sum and direct product, and the structure of finitely generated abelian groups.	Theory	
151	2	전필	2982	고전역학개론및 연습	CLASSICAL MECHANICS I	3.0	4.0	물리	PHYSICS	Mon09-12 1300-1500(이과201), Fri03-06 1000-1200(이B101)	오선근	English	Newtonian mechanics, motion of a particle in one, two, and three dimensions, oscillations, rigid-body dynamics, and central force motion.	Theory+ Experiment	
152	4	전선	4885	고급물리학실험1	EXPERIMENTS ON ADVANCED PHYSICS 1	3.0	6.0	물리	PHYSICS	Mon00-02 0800-1000(이B103), Tue00 0800-0900(이B103), Thu00-01 0800-0930(이B103), Fri00-01 0800-0930(이B103)	이훈경	English	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.	Experiment + Practice	
153	3	전선	4889	수리물리학2	MATHEMATICAL PHYSICS 2	3.0	3.0	물리	PHYSICS	Mon03-05 1000-1130(이B103), Tue07-09 1200-1330(이B103)	윤중혁	English	Homogeneous and nonhomogeneous differential equations. Sturm-Liouville problems. Special functions such as Gamma functions, Bessel functions, and Legendre functions. S Fourier analysis and applications. Integral equations. Calculus of variations.	Theory	
154	4	전선	4890	열및통계물리학2	THERMAL AND STATISTICAL PHYSICS II	3.0	3.0	물리	PHYSICS	Tue13-15 1500-1630(법204) (b-러닝), Thu13-15 1500-1630(법204) (b-러닝)	이훈경	English	Application of statistical methods to phase transition in gas-liquid boundary and magnetic ordering systems. Development of Renormalization Group analysis in the presence of interactions. Quantum statistics: Bose-Einstein, Fermi-Dirac statistics, Basic kinetic theory, Elementary nonequilibrium statistical mechanics.	Theory	
155	4	전선	4892	양자소재 제어실험2	EXPERIMENTS ON QUANTUM DEVICE CONTROL 2	3.0	6.0	물리	PHYSICS	Mon09-12 1300-1500(이B103), Wed07-14 1200-1600(새101)	이상욱	English	In this class, students will characterize fine structures of controlled nano materials by using electron microscope or atomic force microscope in their own projects.	Experiment + Practice	
156	2	전선	4896	나노과학입문	INTRODUCTION TO NANO SCIENCE	3.0	3.0	물리	PHYSICS	Thu10-12 1330-1500(산학111) (b-러닝), Fri07-09 1200-1330(이B101) (b-러닝)	장성호	English	We will introduce nano science by covering recent research trend in nano science and real applications of physical principles, nano materials, and nano devices to engineering or medical science.	Theory	
157	3	전선	4897	상대론과우주	RELATIVITY THEORY AND COSMOLOGY	3.0	3.0	물리	PHYSICS	Mon06-08 1130-1300(이B103), Tue10-12 1330-1500(세미나실-1)	윤중혁	English	In the first part, Special Relativity is taught from geometrical perspective using the light rays, Then using a recent data collected by the Hubble space telescope, I discuss several interesting astrophysical phenomena about galaxies, quasars, neutron stars, supernova, and black holes using slides.	Theory	
158	4	전선	4899	고급양자물리학	ADVANCED QUANTUM PHYSICS	3.0	3.0	물리	PHYSICS	Tue04-06 1030-1200(이B103) (b-러닝), hu07-09 1200-1330(산학111) (b-러닝)	장성호	English	This class will cover macroscopic quantum phenomena such as superconductivity, superfluidity, and Bose-Einstein condensation.	Theory	
159	2	지교	0290	컴퓨터프로그래밍 및연습	COMPUTER PROGRAMMING	3.0	4.0	물리, 물리학, 양자상및소자	PHYSICS, QUANTUM PHASES & DEVICES	Tue06-09 1130-1330(산학320) (b-러닝), Wed13-16 1500-1700(법115) (b-러닝)	정현중	English	Along with some overview of the computer systems, lectures and exercises on C-language will be given. The main purpose of this class is to learn how to make a computer program, which will be required to study the fields of computational physics.	Theory+ Experiment	

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160	2	지교	0291	컴퓨터프로그래밍 및연습	COMPUTER PROGRAMMING	3.0	4.0	물리, 물리학, 양자상및소자	PHYSICS, QUANTUM PHASES & DEVICES	Tue02-05 0930-1130(산학320) (b-러닝), Wed09-12 1300-1500(법115) (b-러닝)	정현중	English	Along with some overview of the computer systems, lectures and exercises on C-language will be given. The main purpose of this class is to learn how to make a computer program, which will be required to study the fields of computational physics.	Theory+ Experiment	
161	3	전선	4886	전기자기학특론 및연습	ADVANCED ELECTROMAGNETISM	3.0	4.0	공통과학, 물리	PHYSICS	Wed05-08 1100-1300(이B101), Fri13-16 1500-1700(이과201)	여준현	English	Applications of Maxwell's equations to electromagnetic ways, physics of plasma, superconductivity, and special theory of relativity.	Theory+ Experiment	
162	3	전선	4893	전산물리학및연습	COMPUTATIONAL PHYSICS	3.0	4.0	공통과학, 물리	PHYSICS	Mon09-12 1300-1500(산학320) (b-러닝), Thu13-16 1500-1700(새301) (b-러닝)	정현중	English	Laboratory and seminar on the solutions of physical problems by modern computational methods. Students choose physics problems or simulations and develop, design, and implement solution using modern computing equipment : Numerical integration, matrix manipulation, numerical solution of differential equation, simulation, and others. Prerequisites : computer language courses in Basic, Fortran, Pascal, or C.	Theory+ Experiment	
163	4	전선	4024	화공전산응용및 설계	COMPUTER APPLICATIONS IN CHEMICAL ENGINEERING	3.0	3.0	화학공	CHEMICAL ENGINEERING	Mon10-15 1330-1630(공별232)	김인원	English	Development of the skills necessary for engineers to efficiently perform process modeling and computer simulation of chemical, physical, and biological processes.	Theory	
164	2	전선	4033	공업유기화학1	ORGANIC CHEMISTRY 1	3.0	3.0	화학공	CHEMICAL ENGINEERING	Mon13-15 1500-1630(공A204), Wed16-18 1630-1800(공B566)	이정걸	English	Fundamentals related to organic chemistry and the mechanisms of their reaction to establish the synthetic method and application of organic chemicals.	Theory	
165	2	전선	4034	공업유기화학1	ORGANIC CHEMISTRY 1	3.0	3.0	화학공	CHEMICAL ENGINEERING	Mon16-18 1630-1800(공A204), Wed13-15 1500-1630(공B566)	이정걸	English	Fundamentals related to organic chemistry and the mechanisms of their reaction to establish the synthetic method and application of organic chemicals.	Theory	
166	4	전선	4035	화공프로젝트설계	CHEMICAL ENGINEERING PROJECT DESIGN	2.0	4.0	화학공	CHEMICAL ENGINEERING	Thu17-21 1700-2030(공A204)	이정걸	English	Ability on unit and integrated chemical process design.	Experiment + Practice	
167	4	전선	4036	화공프로젝트설계	CHEMICAL ENGINEERING PROJECT DESIGN	2.0	4.0	화학공	CHEMICAL ENGINEERING	Tue17-21 1700-2030(공A204) (b-러닝)	민요셉	English	Ability on unit and integrated chemical process design.	Experiment + Practice	
168	2	전선	4037	공업물리화학1	PHYSICAL CHEMISTRY 1	3.0	3.0	화학공	CHEMICAL ENGINEERING	Mon04-06 1030-1200(공B565) (b-러닝), Wed10-12 1330-1500(공별232) (b-러닝)	민요셉	English	Understanding of fundamental properties of materials using basic laws of unit operation, thermodynamics and reaction engineering such as thermodynamic laws, phase equilibrium, chemical equilibrium, surface thermodynamic and reaction kinetics.	Theory	
169	2	전선	4038	공업물리화학1	PHYSICAL CHEMISTRY 1	3.0	3.0	화학공	CHEMICAL ENGINEERING	Mon07-09 1200-1330(공별232) (b-러닝), Wed07-09 1200-1330(공별232) (b-러닝)	민요셉	English	Understanding of fundamental properties of materials using basic laws of unit operation, thermodynamics and reaction engineering such as thermodynamic laws, phase equilibrium, chemical equilibrium, surface thermodynamic and reaction kinetics.	Theory	
170	2	전선	4039	화공재료융합기술	FUSION TECHNOLOGY OF CHEMICAL AND MATERIALS ENGINEERING	3.0	3.0	화학공	CHEMICAL ENGINEERING	Fri03-08 1000-1300(공A204) (b-러닝)	민요셉	English	This course provides an introduction to materials science to understand a role of chemical process in development and applications of materials. For theoretical approaches to the structure-property relationships of solids, the following topics will be integrated in this course: atomic bonding, structure of crystalline materials, imperfections in solids, diffusion in solids, phase diagrams, phase transformations, mechanical properties, electrical properties, thermal properties, magnetic properties, and optical properties.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
171	2	전선	4040	화공재료융합기술	FUSION TECHNOLOGY OF CHEMICAL AND MATERIALS ENGINEERING	3.0	3.0	화학공	CHEMICAL ENGINEERING	Fri11-16 1400-1700(공A204) (b-러닝)	민요섭	English	This course provides an introduction to materials science to understand a role of chemical process in development and applications of materials. For theoretical approaches to the structure-property relationships of solids, the following topics will be integrated in this course: atomic bonding, structure of crystalline materials, imperfections in solids, diffusion in solids, phase diagrams, phase transformations, mechanical properties, electrical properties, thermal properties, magnetic properties, and optical properties.	Theory	
172	1	지교	0401	생물학	BIOLOGY	3.0	3.0	화학공	CHEMICAL ENGINEERING	Fri03-08 1000-1300(공별232)	이정걸	English	This course gives lectures on the basic knowledge of various fields of modern biology including biotechnology and medical engineering. Based on the basic concepts of biological science such as taxonomy, morphology, physiology, embryology, genetics, and ecology, this course introduces molecular biology and genetic engineering.	Theory	
173	1	지교	0402	생물학	BIOLOGY	3.0	3.0	화학공	CHEMICAL ENGINEERING	Fri11-16 1400-1700(공별232)	이정걸	English	This course gives lectures on the basic knowledge of various fields of modern biology including biotechnology and medical engineering. Based on the basic concepts of biological science such as taxonomy, morphology, physiology, embryology, genetics, and ecology, this course introduces molecular biology and genetic engineering.	Theory	
174	1	지교	0314	일반물리학	FUNDAMENTAL PHYSICS	3.0	3.0	첨유공학과, 유기나노시스템공	PHYSICS, QUANTUM PHASES & DEVICES	Tue13-18 1500-1800(공C487)	자일무하마드	English	The course offers the basic principles governing our universe and everyday lives, a feel for the scientific method, and an understanding of the techniques of problem solving. The goal is to convey the excitement of the engineer's quest to understand nature at its deepest level, and at the same time to provide the knowledge and tools that they will need to continue their studies in engineering. Topics include: kinematics, thermodynamics, hydrodynamics, vibrational motion, electromagnetics, optics and modern physics	Theory	
175	3	전선	4414	나노소재공학	NANOMATERIALS ENGINEERING	3.0	3.0	융합신소재공	MATERIALS CHEMISTRY & ENGINEERING	Tue09-12 1300-1500(공A207), Thu17-18 1700-1800(공A207)	최명석	English	A subject for the general trend of nanotechnology and biotechnology	Theory	
176	4	전선	4420	촉매공학	CATALYTIC ENGINEERING	3.0	3.0	융합신소재공	MATERIALS CHEMISTRY & ENGINEERING	Tue04-06 1030-1200(공A207), Thu09-11 1300-1430(공A207)	김화중	English	Fundamentals related to adsorption isotherm, catalytic reaction, physico-chemical properties of catalysts and their manufacturing processes, and shaping processes. Prerequisite : Chemical Reaction Engineering.	Theory	
177	2	전선	4423	재료물성	MATERIALS RHEOLOGY	3.0	3.0	융합신소재공	MATERIALS CHEMISTRY & ENGINEERING	Fri01-06 0900-1200(공별231)	전용석	English	This course provides the understanding of the general property of advanced materials such as metal, ceramics, insulator, dielectric, and superconductor, and the analysis method and principle of the material properties will be discussed.	Theory	
178	2	전필	2033	전기공학실험2	ELECTRICAL ENGINEERING LABORATORY 2	1.0	2.0	전기공학과	ELECTRICAL ENGINEERING	Mon03-06 1000-1200(공별136)	노재형	English	Introduction to basic circuit analysis based upon the theories of electromagnetics and/or electric circuits. Data obtained from the instruments are compared with a simulation results from the circuit simulator PSPICE.	Experiment + Practice	
179	2	전필	2034	전기공학실험2	ELECTRICAL ENGINEERING LABORATORY 2	1.0	2.0	전기공학과	ELECTRICAL ENGINEERING	Thu13-16 1500-1700(공별136)	노재형	English	Introduction to basic circuit analysis based upon the theories of electromagnetics and/or electric circuits. Data obtained from the instruments are compared with a simulation results from the circuit simulator PSPICE.	Experiment + Practice	
180	3	전필	2035	전기기초설계 프로젝트	ELECTRICAL DESIGN PROJECT 1	1.0	2.0	전기공학과	ELECTRICAL ENGINEERING	Thu09-12 1300-1500(공별135)	최영호	English	One of electric design projects is assigned to each team to perform basic research, design and simulation for a final project. Performance evaluation sheet will be prepared to extend it to the next project Electric Design Project 2.	Experiment + Practice	

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181	3	전필	2036	전기기초설계 프로젝트	ELECTIRC DESIGN PROJECT 1	1.0	2.0	전기공학과	ELECTRICAL ENGINEERING	Fri09-12 1300-1500(공별135)	최영호	English	One of electric design projects is assigned to each team to perform basic research, design and simulation for a final project. Performance evaluation sheet will be prepared to extend it to the next project Electric Design Project 2.	Experiment + Practice	
182	3	전필	2037	전기기초설계 프로젝트	ELECTIRC DESIGN PROJECT 1	1.0	2.0	전기공학과	ELECTRICAL ENGINEERING	Fri13-16 1500-1700(공별135)	최영호	English	One of electric design projects is assigned to each team to perform basic research, design and simulation for a final project. Performance evaluation sheet will be prepared to extend it to the next project Electric Design Project 2.	Experiment + Practice	
183	2	전필	2038	전기회로및설계 1	ELECTRIC CIRCUIT AND DESIGN 1	3.0	3.0	전기공학과	ELECTRICAL ENGINEERING	Thu01-03 0900-1030(공C483), Fri04-06 1030-1200(공C483)	최영호	English	It deals with the understanding of the international system of units, and the integrodifferential equations those describe the voltage, current, power and energy. This course also covers the characteristics of basic elements-R,L,C, and the response characteristics of parallel and series RLC circuits, basic design and analysis of an OP amp circuit. It deals with the various circuit theorems and principles to be used in the circuit analysis and design.	Theory	
184	2	전필	2039	전기회로및설계 1	ELECTRIC CIRCUIT AND DESIGN 1	3.0	3.0	전기공학과	ELECTRICAL ENGINEERING	Thu04-06 1030-1200(공C486), Fri01-03 0900-1030(공C483)	최영호	English	It deals with the understanding of the international system of units, and the integrodifferential equations those describe the voltage, current, power and energy. This course also covers the characteristics of basic elements-R,L,C, and the response characteristics of parallel and series RLC circuits, basic design and analysis of an OP amp circuit. It deals with the various circuit theorems and principles to be used in the circuit analysis and design.	Theory	
185	3	전선	3146	마이크로프로세서 설계및응용	MICROPROCESSOR DESIGN AND APPLICATION	3.0	4.0	전기공학과, 로봇공학	ELECTRICAL ENGINEERING, ROBOTICS	Tue07-10 1200-1400(공C483), Fri01-04 0900-1100(공별135)	조영훈	English	It introduces uP to cover the structures(hardware), design(software), peripheral devices and application programming.	Theory+ Experiment	
186	4	전선	3148	스마트그리드	SMART GRID	2.0	2.0	전기공학과	ELECTRICAL ENGINEERING	Thu09-12 1300-1500(공C483)	노재형	English	The main topics in this class include the theoretical backgrounds on the convergence between the powersystem engineering and IT technologies and the convergence forms in the power industries. This course also covers the elements of Smart Grid and milestones of Smart Grid in Korea.	Theory	
187	4	전선	3150	에너지전자	POWER ELECTRONICS	3.0	3.0	전기공학과	ELECTRICAL ENGINEERING	Wed01-03 0900-1030(공C483), Fri05-07 1100-1230(공C486)	조영훈	English	It covers advanced topics related to power conversion and control with power semiconductors. The deailed analysis for various power converters are studied with the simulation packages and also design of their controllers are introduced together with the control algorithm.	Theory	
188	4	전선	3156	최신발전공학	ADVANCED GENERATION TECHNOLOGIES	3.0	3.0	전기공학과	ELECTRICAL ENGINEERING	Thu03-05 1000-1130(공C487), Fri09-11 1300-1430(공C486)	노재형	English	This course covers power plant technologies including fossil, nuclear, renewable power plants technologies and emerging technologies such as energy storage technologies and distribute generation those are basic elements of an energy system. This course will give students a complete and detailed understanding of the entire sepectrum of power generation system and energy storage system. The acquired knowledge could be applied to energy system analysis in various perspectives.	Theory	
189	3	전선	3604	물리전자공학	PHYSICAL ELECTRONICS	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Tue13-15 1500-1630(공C485), Thu13-15 1500-1630(공C485)	박기찬	English	Quantum mechanics, Quantum statistics, Solid state theory, semiconductor theory.	Theory	

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190	3	전선	3605	물리전자공학	PHYSICAL ELECTRONICS	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Wed13-15 1500-1630(공C481), Fri13-15 1500-1630(공C485)	박기찬	English	Quantum mechanics, Quantum statistics, Solid state theory, semiconductor theory.	Theory	
191	3	전선	3630	전자회로 2	ELECTRONIC CIRCUITS 2	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Mon13-15 1500-1630(공C485), Wed16-18 1630-1800(공C485)	김진태	English	Digital circuit elements, LSI, Non-linear amplifier, Oscillator, Frequency response of Operational Amplifier.	Theory	
192	3	전선	3631	전자회로 2	ELECTRONIC CIRCUITS 2	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Mon16-18 1630-1800(공C485), Wed13-15 1500-1630(공C485)	김진태	English	Digital circuit elements, LSI, Non-linear amplifier, Oscillator, Frequency response of Operational Amplifier.	Theory	
193	2	전선	3633	회로이론	CIRCUIT THEORY	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Mon13-15 1500-1630(공C482), Tue10-12 1330-1500(공C482)	박성정	English	Basic circuit principles and analysis techniques related to electric circuits consisting of passive circuit elements such as resistors, capacitors, and inductors. Also covered are the transient and steady-state behaviors of electric circuits.	Theory	
194	4	전선	3637	통신시스템설계	DESIGN OF DIGITAL COMMUNICATION SYSTEMS	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Mon13-18 1500-1800(공C292)	김준태	English	Laboratory oriented with lectures keyed to practical communication algorithms and their implementation. wireless transmission technology, channel coding algorithm, spread-spectrum technologies.	Theory+ Experiment	
195	4	전선	3639	아날로그집적 회로설계	ANALOG INTEGRATED CIRCUIT DESIGN	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Tue13-15 1500-1630(공C481-1), Wed07-09 1200-1330(공C485)	김진태	English	In this course, operational principles of differential amplifier and operational amplifier as well as device and process theory for design of CMOS analog Integrated Circuits are studied based on the basics of the "Electronic Circuits 1,2" and designed with EDA Tools. Through the design and practice, full design procedures of Integrated Circuits are studied by simulating with SPICE and layout the operational amplifier which is one of the most important blocks.	Theory	
196	4	전선	3695	무선네트워크 설계	DESIGN OF WIRELESS NETWORKS	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Mon13-15 1500-1630(공C481-1), Wed10-12 1330-1500(공C485)	권영구	English	Help students to understand the basic architecture of wireless networks by analyzing next generation cellular networks, WLAN, WPAN, and designing various wireless network protocols and applications with network simulation tools.	Theory	
197	4	전선	3698	ASIC설계	ASIC DESIGN	3.0	3.0	전자공	ELECTRICAL ENGINEERING	Tue16-18 1630-1800(공C481-1), Wed10-12 1330-1500(공C482)	박성정	English	VHDL, Verilog-HDL, circuit design, ASIC test methodology, Synthesis and implementation tool.	Theory	
198	4	전선	4703	메카트로닉스 설계	MECHATRONICS DESIGN	3.0	4.0	기계공	MECHANICAL ENGINEERING	Mon13-16 1500-1700(공A303), Wed13-16 1500-1700(공A303)	강철구	English	Basics of electrical and electronic engineering and computer science for applications to mechanical systems; Electronic devices, analog circuit design using op amps, digital logic circuit design and analysis, programming and application of microcontrollers and microprocessors, fundamentals and driving methods of stepping motors; Lab practices and experiments.	Theory+ Experiment	
199	4	전선	4704	연소공학	INTRODUCTION TO COMBUSTION	3.0	3.0	기계공	MECHANICAL ENGINEERING	Wed10-12 1330-1500(공A303), Fri10-12 1330-1500(공A303)	박정규	English	Concept of combustion, the flow with chemical reaction, flame instability, and mathematical modeling of basic combustion.	Theory	
200	3	전선	4708	전산수치해석	NUMERICAL ANALYSIS	3.0	3.0	기계공	MECHANICAL ENGINEERING	Mon01-03 0900-1030(공A406), Tue09-11 1300-1430(공A406)	나양	English	Numerical methods from an end-user's point of view: interpolation and splines, integration, numerical solution of ordinary differential equations: explicit and implicit method, multi-step methods, boundary value problems, eigenvalue problems. Emphasis on analysis of numerical methods for accuracy, convergence, stability.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
201	3	전선	4709	전산수치해석	NUMERICAL ANALYSIS	3.0	3.0	기계공	MECHANICAL ENGINEERING	Mon09-11 1300-1430(공A406), Tue01-03 0900-1030(공A406)	나양	English	Numerical methods from an end-user's point of view: interpolation and splines, integration, numerical solution of ordinary differential equations: explicit and implicit method, multi-step methods, boundary value problems, eigenvalue problems. Emphasis on analysis of numerical methods for accuracy, convergence, stability.	Theory	
202	2	전선	4710	창의설계	CREATIVE DESIGN	2.0	3.0	기계공	MECHANICAL ENGINEERING	Tue01-06 0900-1200(공B552) (b-러닝)	이병욱	English	Creative problem-handling and elementary engineering design. Introduction of the essential idea of the recently developed technology in engineering area. Group discussion and presentation at each step leading to the final goal of given problems.	Theory+ Experiment	b-learning
203	3	전선	3564	기계요소설계	DESIGN OF MACHINE ELEMENTS	3.0	4.0	기계공	MECHANICAL ENGINEERING	Tue19-20 1815-1945(공1102), Wed14-17 1530-1730(공B551)	김창완	English	Improvement of the design ability for coupling, clutch, shaft, and screw by applying fundamental laws and mechanical knowledge.	Theory+ Experiment	
204	2	전선	3570	기계제작과정	MANUFACTURING PROCESS	3.0	3.0	기계공	MECHANICAL ENGINEERING	Mon01-03 0900-1030(공B554) (b-러닝), Wed04-06 1030-1200(공B554) (b-러닝)	이동진	English	Manufacturing processes of engineering materials from raw state to final mechanical products: material properties, casting, forming, cutting, welding, measurement, computer-integrated manufacturing.	Theory	
205	2	전선	3571	기계제작과정	MANUFACTURING PROCESS	3.0	3.0	기계공	MECHANICAL ENGINEERING	Mon04-06 1030-1200(공B554) (b-러닝), Wed01-03 0900-1030(공B554) (b-러닝)	이동진	English	Manufacturing processes of engineering materials from raw state to final mechanical products: material properties, casting, forming, cutting, welding, measurement, computer-integrated manufacturing.	Theory	
206	3	전필	2703	기계공학실험3	MECHANICAL ENGINEERING LAB. 3	1.0	2.0	기계공	MECHANICAL ENGINEERING	Fri13-15 1500-1630(공B552) (b-러닝), Fri16 1630-1700(공B155) (b-러닝)	이병욱	English	Tension, compression, bending, shear, torsion, impact, buckling, and hardness tests.	Experiment + Practice	b-learning
207	3	전필	2704	기계공학실험3	MECHANICAL ENGINEERING LAB. 3	1.0	2.0	기계공	MECHANICAL ENGINEERING	Fri17 1700-1730(공B155) (b-러닝), Fri18-19 1730-1900(공B552) (b-러닝)	이병욱	English	Tension, compression, bending, shear, torsion, impact, buckling, and hardness tests.	Experiment + Practice	b-learning
208	3	전필	2066	기계공학실험3	MECHANICAL ENGINEERING LAB. 3	1.0	2.0	기계공	MECHANICAL ENGINEERING	Fri13-16 1500-1700(공B554)	김창완	English	Tension, compression, bending, shear, torsion, impact, buckling, and hardness tests.	Experiment + Practice	
209	3	전필	2079	기계공학실험3	MECHANICAL ENGINEERING LAB. 3	1.0	2.0	기계공	MECHANICAL ENGINEERING	Fri17-19 1700-1900(공B554)	김창완	English	Tension, compression, bending, shear, torsion, impact, buckling, and hardness tests.	Experiment + Practice	
210	3	전선	3563	기계요소설계	DESIGN OF MACHINE ELEMENTS	3.0	4.0	기계공	MECHANICAL ENGINEERING	Mon19-20 1815-1945(공1102), Wed09-12 1300-1500(공B552)	김창완	English	Improvement of the design ability for coupling, clutch, shaft, and screw by applying fundamental laws and mechanical knowledge.	Theory+ Experiment	
211	3	전선	4713	기계진동	MECHANICAL VIBRATIONS	3.0	3.0	기계공, 로봇공학	MECHANICAL ENGINEERING, ROBOTICS	Mon01-06 0900-1200(공A602)	이진교	English	Mathematical modeling and analysis of vibration system based on the dynamics. It covers free and forced vibrations, damping mechanism, modal analysis for multidegree of freedom system and continuous system.	Theory	
212	3	전선	4714	기계진동	MECHANICAL VIBRATIONS	3.0	3.0	기계공, 로봇공학	MECHANICAL ENGINEERING, ROBOTICS	Mon09-14 1300-1600(공A602)	이진교	English	Mathematical modeling and analysis of vibration system based on the dynamics. It covers free and forced vibrations, damping mechanism, modal analysis for multidegree of freedom system and continuous system.	Theory	

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213	3	전선	3669	소프트웨어모델링 및분석	SOFTWARE MODELING AND ANALYSIS	3.0	4.0	컴퓨터공	COMPUTER SCIENCE & ENGINEERING	Wed15-18 1600-1800(새602), Fri01-04 0900-1100(새502)	유준범	English	This course covers basic concepts of software engineering and software modeling and the modeling language. Students will learn software development process, various software modeling perspectives, modeling languages for overall development process, and modeling development tools. Also, this course covers principles and methodologies for the requirement analysis activity which is the initial step of software development process.	Theory+ Experiment	
214	4	전선	3681	소프트웨어검증	SOFTWARE VERIFICATION	3.0	4.0	컴퓨터공	COMPUTER SCIENCE & ENGINEERING	Wed08-11 1230-1430(새502), Fri05-08 1100-1300(새502)	유준범	English	This course introduces formal methods, used to guarantee safety and reliability of safety-critical software, to undergraduate senior students. It consists of formal specification and formal verification. It looks into basic theories of several widely-used ones, and then confirms their features and pros/cons through team projects.	Theory+ Experiment	
215	4	전선	3684	컴퓨터네트워크	COMPUTER NETWORK	3.0	3.0	컴퓨터공	COMPUTER SCIENCE & ENGINEERING	Mon02-04 0930-1100(새602), Wed02-04 0930-1100(새602)	한선영	English	This course covers fundamental theory and design of network. Introduces OSI 7 layer, TCP/IP and various network devices. Studies assembling, cabling, operating and configuring network devices. Topics include routing, routing protocol, router, IOS, router configuration and network troubleshooting.	Theory	
216	4	전선	3656	종합설계 1	CIVIL ENGINEERING CAPSTONE DESIGN 1	3.0	5.0	컴퓨터공	COMPUTER SCIENCE & ENGINEERING	Sat01-10 0900-1400(새602)	유준범	English	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+ Experiment	
217	2	전필	2090	자료구조	DATA STRUCTURE	3.0	3.0	컴퓨터공, 로봇공학	COMPUTER SCIENCE & ENGINEERING, ROBOTICS	Tue05-07 1100-1230(새402), Thu09-11 1300-1430(새402)	하영국	English	Introduces data structures which are used for processing data in efficient ways. Data structures is one of the basic techniques that a programmer has to have in order to be a good programmer. In the lecture, several important data structures are introduced and their efficiencies are compared.	Theory	
218	2	전필	2091	자료구조	DATA STRUCTURE	3.0	3.0	컴퓨터공, 로봇공학	COMPUTER SCIENCE & ENGINEERING, ROBOTICS	Tue12-14 1430-1600(새402), Thu14-16 1530-1700(새402)	하영국	English	Introduces data structures which are used for processing data in efficient ways. Data structures is one of the basic techniques that a programmer has to have in order to be a good programmer. In the lecture, several important data structures are introduced and their efficiencies are compared.	Theory	
219	4	전선	3740	게임프로그래밍	GAME PROGRAMMING	3.0	4.0	인터넷·미디어	INTERNET & MULTIMEDIA	Tue03-06 1000-1200(새403), Thu03-06 1000-1200(새403)	김형석	English	Study game programming methodology for games.	Theory+ Experiment	
220	3	전선	3741	네트워크와 데이터통신	NETWORK AND DATA COMMUNICATIONS	3.0	3.0	인터넷·미디어	INTERNET & MULTIMEDIA	Mon01-03 0900-1030(새401), Thu01-03 0900-1030(새401)	이한구	English	This course introduces the basic concepts and layer structure of computer networks, and covers protocols of application layer, transport layer, network layer, and link layer.	Theory	
221	3	전선	3742	네트워크와 데이터통신	NETWORK AND DATA COMMUNICATIONS	3.0	3.0	인터넷·미디어	INTERNET & MULTIMEDIA	Mon04-06 1030-1200(새401), Thu04-06 1030-1200(새401)	이한구	English	This course introduces the basic concepts and layer structure of computer networks, and covers protocols of application layer, transport layer, network layer, and link layer.	Theory	
222	3	전선	3744	디지털영상처리	DIGITAL IMAGE PROCESSING	3.0	3.0	인터넷·미디어	INTERNET & MULTIMEDIA	Tue03-06 1000-1200(새601), Wed05-06 1100-1200(새403)	김은이	English	It covers techniques fo digital image processing theory and conversion, recovery and compression of image.	Theory	
223	3	전선	3745	멀티미디어 콘텐츠설계	MULTIMEDIA CONTENTS DESIGN	3.0	4.0	인터넷·미디어	INTERNET & MULTIMEDIA	Tue13-16 1500-1700(새403), Thu13-16 1500-1700(새403)	김형석	English	This course teach programming technique to deal with audio, images, graphics, and videos. overall and basic aspects of computer games. As for technical items, Direct X programming will be studied. A term project (homework, practice) is required.	Theory+ Experiment	

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224	4	전선	3746	멀티미디어통신	MULTIMEDIA COMMUNICATION	3.0	3.0	인터넷·미디어	INTERNET & MULTIMEDIA	Tue14-16 1530-1700(새601), Thu14-16 1530-1700(새601)	임창훈	English	This course introduces the basic concepts, techniques, and applications in multimedia communications. The topics include multimedia representation, video compression, multimedia network communication, and wired/wireless networks.	Theory	
225	3	지교	0157	공학수치해석	ENGINEERING NUMERICAL ANALYSIS	3.0	3.0	항공우주정보시스템 공학과	AEROSPACE INFORMATION ENGINEERING	Mon12-14 1430-1600(공C386), Wed12-14 1430-1600(공별234)	김창주	English	Numerical methods provides an introduction to error analysis, root finding, interpolation, numerical integration and differentiation, systems of linear equations, and numerical solutions of ordinary differential equations	Theory	
226	2	지교	0161	공학수학및연습 1	ADVANCED ENGINEERING MATHEMATICS 1	3.0	4.0	항공우주정보시스템 공학과	AEROSPACE INFORMATION ENGINEERING	Tue15-18 1600-1800(공C386), Fri03-06 1000-1200(공C386)	부디오노	English	Learn vector, martrix, Fourier series, partial differential equations.	Theory	
227	3	전선	3924	신호및시스템	SIGNAL AND SYSTEMS	3.0	3.0	항공우주정보시스템 공학과	AEROSPACE INFORMATION ENGINEERING	Mon09-11 1300-1430(공별234), Wed15-17 1600-1730(공별234)	성상경	English	Introduction to description of signals and systems, continuous and discrete systems, characteristics of linear systems, frequency analysis of continuous and discrete signals, spectrum analysis of random signals, Laplace transformation and application to continuous systems, fourier series and transformation, Z transformation and application to discrete systems, and analog filter design.	Theory	
228	4	전선	3927	회전익기공학	ROTORCRAFT PERFORMANCE ANALYSIS	3.0	3.0	항공우주정보시스템 공학과	AEROSPACE INFORMATION ENGINEERING	Mon15-17 1600-1730(공C386), Wed15-17 1600-1730(공C386)	김창주	English	Fundamental aerodynamics of rotorcraft will be studied, including general momentum theory, blade-element theory and physical analysis of blade motions.	Theory	
229	3	전선	3928	항공우주형상 설계	AEROSPACE CAD AND MODELING	3.0	3.0	항공우주정보시스템 공학과	AEROSPACE INFORMATION ENGINEERING	Tue01-03 0900-1030(공C386), Fri04-06 1030-1200(공1102)	김상호	English	- Aircraft Configuration Layout and Loft. - Flat-Wrap Fuselage Lofting, Circle-to-Square Adapter, Fuselage Loft Verification, Wing/Tail Layout and Loft. - Wetted Area Determination, Volume Determination. - Special Considerations in Configuration Layout: Aerodynamic Consideration	Theory	
230	3	전선	3929	임베디드시스템 설계	EMBEDDED SYSTEM DESIGN	3.0	3.0	항공우주정보시스템 공학과	AEROSPACE INFORMATION ENGINEERING	Mon16-18 1630-1800(공별234), Wed01-03 0900-1030(공C386)	문창주	English	The class goal is to learn embedded system with theory and practice. The theory part consists of basic definition, system architecture, development environment, development process, software design, and development tool and then the practice part also consists of EMBOT-270, PXA 270 CPU, embedded linux technique.	Theory	
231	4	전선	3930	항공우주IT공학	AEROSPACE IT ENGINEERING	3.0	3.0	항공우주정보시스템 공학과	AEROSPACE INFORMATION ENGINEERING	Tue10-12 1330-1500(공1102), Thu04-06 1030-1200(공1102)	이정욱	English	This course introduces students to the various areas of information technologies for the solution of aerospace engineering problems.	Theory	
232	3	전선	4060	동물생명정보학	BASIC BIOINFORMATICS	3.0	4.0	동물생명공	ANIMAL BIOTECHNOLOGY	Tue11-14 1400-1600(산학320), Thu13-16 1500-1700(산학320)	김재범	English	To study fundamental concepts on how to analyze and utilize data in animal biology by using information technologies, and to perform simple practices	Theory+ Experiment	
233	4	전선	4061	논문작성법	GRANT AND THESIS WRITING	3.0	6.0	동물생명공	ANIMAL BIOTECHNOLOGY	Thu07-12 1200-1500(동301), Fri01-06 0900-1200(동301)	김진희, 이훈택	English	Fundamental study on research methodology is provided. also thesis writing and techniques will be lectured.	Experiment + Practice	
234	4	전선	4062	유전학산업활용	GENETICS AND INDUSTRY APPLICATION	3.0	3.0	동물생명공	ANIMAL BIOTECHNOLOGY	Mon09-10 1300-1400(동301), Tue07-10 1200-1400(동301)	하일루	English	Lectures on genetic concepts on livestock and biomedical industries. Especially focusing on statistical genetics, basic concepts for animal breeding and application of molecular genetic technologies	Theory	
235	4	전선	4064	줄기세포생물학 및실습	STEM CELL BIOLOGY	3.0	4.0	동물생명공	ANIMAL BIOTECHNOLOGY	Mon03-06 1000-1200(동301), Thu13-16 1500-1700(동301)	도정태	English	The basic characteristics of an ES cell include self-renewal, multilineage differentiation in vitro and in vivo, clonogenicity, a normal karyotype, extensive proliferation in vitro under well-defined culture condition.	Theory+ Experiment	

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236	1	지교	0142	동물생명공학 실험 1	ANIMAL BIOTECHNOLOGY EXPERIMENTS 1	2.0	3.0	동물생명공	ANIMAL BIOTECHNOLOGY	Mon13-18 1500-1800(동301)	도정태, 서한국	English	Understanding the characteristics of Animal Biotechnology through the experiments and practices.	Theory+ Experiment	
237	1	지교	0143	동물생명공학영어	ENGLISH FOR ANIMAL BIOTECHNOLOGY	3.0	3.0	동물생명공	ANIMAL BIOTECHNOLOGY	Wed03-06 1000-1200(동711), Thu03-04 1000-1100(동711)	하일루	English	Basic course to introduce English terms in Animal Biotechnology and to teach basic knowledge, which is helpful for understanding English lectures on Animal Biotechnology.	Theory	
238	1	지교	0144	동물생명공학입문	INTRODUCTION TO ANIMAL BIOTECHNOLOGY	3.0	3.0	동물생명공	ANIMAL BIOTECHNOLOGY	Tue15-16 1600-1700(동320), Thu09-12 1300-1500(동320)	김재범, 도정태, 오재욱	English	The course is intended to provide a chance for job or career planning to students after completing the undergraduate program in the department of Animal Biotechnology	Theory	
239	2	전필	2517	미생물학및실험	GENERAL MICROBIOLOGY AND LAB	3.0	4.0	동물자원과	ANIMALSCIENCE & TECHNOLOGY	Mon09-12 1300-1500(동304), Fri13-16 1500-1700(동304)	김수기	English	Overview of basic principles and characteristics of microorganism, including taxonomy, structure, metabolism, growth, genetics, and techniques to culture and identify microorganisms.	Theory+ Experiment	
240	3	전선	3506	가축면역학	LIVESTOCK IMMUNOLOGY	3.0	3.0	동물자원과	ANIMALSCIENCE & TECHNOLOGY	Mon09-11 1300-1500(동303), Thu09-11 1300-1430(동303)	조재순	English	The goal of this course is to provide the student with a basic knowledge of immunology, and antibody and cell-mediated immunities related to livestock nutrition.	Theory	
241	3	전선	3507	동물행동학	ANIMAL BEHAVIOR	3.0	3.0	동물자원과	ANIMALSCIENCE & TECHNOLOGY	Tue09-12 1300-1500(동303), Thu03-04 1000-1100(동711)	이홍구	English	Lecture on the kinds and characteristics of animal behavior. Understanding the link between the (genetic and learned) behavior and survival and/or welfare of animals will contribute to improve human-animal relationship.	Theory	
242	4	전선	3509	양돈학	SWINE SCIENCE	3.0	3.0	동물자원과	ANIMALSCIENCE & TECHNOLOGY	Mon03-05 1000-1130(동304), Thu03-05 1000-1130(동304)	김법균	English	This course details swine biology and pork production systems, including breeding, reproduction, feeding, health, management practices, and pork processing essential for commercial swine and pork production	Theory	
243	2	전필	2345	우유과학및실습	MILK SCIENCE & LAB	3.0	4.0	축산식품공	BIOLOGICAL ENGINEERING	Mon01-04 0900-1100(동302), Thu09-12 1300-1500(동302)	한성구	English	This course focuses on understanding of milk and effect of milk in health.	Theory+ Experiment	
244	3	전선	3230	식품면역학	FOOD IMMUNOLOGY	3.0	3.0	축산식품공	BIOLOGICAL ENGINEERING	Mon03-06 1000-1200(동321), Wed01-02 0900-1000(동321)	오재욱	English	This lecture deals with previous histories and new findings in immunology, and application in foods.	Theory	
245	2	전필	2990	공업미생물학 1 및실험	INDUSTRIAL MICROBIOLOGY 1 & LAB.	3.0	4.0	생물공	BIOLOGICAL ENGINEERING	Tue07-10 1200-1400(공B551), Thu11-14 1400-1600(공B360)	김형주	English	The lecture and laboratory work describe the general knowledge of microbiology and its industrial applications.	Theory+ Experiment	
246	2	전필	2991	공업미생물학 1 및실험	INDUSTRIAL MICROBIOLOGY 1 & LAB.	3.0	4.0	생물공	BIOLOGICAL ENGINEERING	Tue07-10 1200-1400(공B551), Tue11-14 1400-1600(공B360)	김형주	English	The lecture and laboratory work describe the general knowledge of microbiology and its industrial applications.	Theory+ Experiment	
247	2	전필	2993	생화학및실험 2	BIOCHEMISTRY AND LAB 2	3.0	4.0	생물공	BIOLOGICAL ENGINEERING	Mon09-12 1300-1500(공B551), Wed13-16 1500-1700(공B360)	이상현	English	The lecture describes the biological phenomena at the molecular level and biological functions on proteins, carbohydrates and lipids, and also discusses in terms of their chemical structures and physiological roles in the cell.	Theory+ Experiment	
248	2	전필	2994	생화학및실험 2	BIOCHEMISTRY AND LAB 2	3.0	4.0	생물공	BIOLOGICAL ENGINEERING	Mon09-12 1300-1500(공B551), Mon13-16 1500-1700(공B360)	이상현	English	The lecture describes the biological phenomena at the molecular level and biological functions on proteins, carbohydrates and lipids, and also discusses in terms of their chemical structures and physiological roles in the cell.	Theory+ Experiment	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
249	1	지교	0210	인간과생명공학	HUMAN & BIOTECHNOLOGY	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Fri01-06 0900-1200(공B566)	쿠마란	English	The lecture describes the fundamental knowledge of Biology, Basic Medicine, Genetic Engineering, Microbial Engineering, and Biotechnology, and the present and prospect of various field of biological science and biotechnology industry, which would provide students with the foundation of being leading bioengineers and biomedical researchers in the future.	Theory	
250	2	지교	0212	유기화학개론	INTRODUCTION TO ORGANIC CHEMISTRY	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Mon01-03 0900-1030(공B551), Tue04-06 1030-1200(공B551)	쿠마란	English	The lecture describes the general knowledge of Organic Chemistry and helps students to gain abilities to apply it for Biochemical Engineering.	Theory	
251	2	지교	0213	공학논문작성법	SCIENTIFIC WRITINGS FOR BIOTECHNOLOGY	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Tue01-03 0900-1030(공B551), Fri09-11 1300-1430(공B551)	쿠마란	English	The lecture deals with how to comprehend and write scientific documents, particularly, biotechnology-related journals written in English. It also includes the skill of scientific communication and presentation.	Theory	
252	3	전선	4940	바이오촉매공학	BIOCATALYST ENGINEERING	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Mon04-06 1030-1200(공A402), Fri15-17 1600-1730(공A402)	이상현	English	The lecture describes general knowledges of bio catalyst, including general properties, characteristics, classification, and it industrial applications.	Theory	
253	3	전선	4944	세포신호전달 시스템공학	CELL SIGNAL TRANSDUCTION SYSTEM ENGINEERING	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Wed09-11 1300-1430(공B551), Fri04-06 1030-1200(공B551)	안성관	English	Lecturing inter- and intra-cellular signal transduction pathways, mechanisms and their regulatory systems in multicellular organism.	Theory	
254	4	전선	4945	화장품생물소재학	COSMETIC BIOMATERIALS	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Tue09-11 1300-1430(공A402), Thu11-13 1400-1530(공A402)	최태부	English	Various cosmetic law materials for the preparation of cosmetic products will be studied focusing on the recently developed biomaterials.	Theory	
255	3	전선	4947	유전공학및실험	GENETIC ENGINEERING AND EXPERIMENT	3.0	4.0	생물공	BIOLOGICAL ENGINEERING	Tue09-12 1300-1500(공B361), Wed01-04 0900-1100(공A402)	안성관	English	The lecture and engineering design describe knowledge of gene cloning, Genetic Engineering and designs of recombinant genes and proteins. It also includes introduction Functional Genomics and Bioinformatics.	Theory+ Experiment	
256	3	전선	4948	유전자제어공학	GENETIC REGULATION AND TECHNOLOGY	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Tue04-06 1030-1200(공A402), Thu07-09 1200-1330(공A402)	배승희	English	The lecture describes the DNA repair mechanism, regulations of gene activity in prokaryotes and eukaryotes, phage, manipulation of gene and microbial genetics.	Theory	
257	4	전선	4949	바이오의약품	BIOLOGICAL MEDICINE	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Mon13-15 1500-1630(공A402), Wed10-12 1330-1500(공A402)	양영현	English	The lecture describes the synopsis on the final fermentation products of microorganism used for medical supplies, microbial polysaccharides, enzymatic products, vitamins, biological active substances and the activity test of each fermentation medicine.	Theory	
258	2	전선	4950	바이오공정공학 입문설계	BIOPROCESS ENGINEERING AND DESIGN	3.0	3.0	생물공	BIOLOGICAL ENGINEERING	Mon04-06 1030-1200(공B551), Thu01-03 0900-1030(공A402)	양영현	English	The lecture describes design of biotechnological experiment, bioreactor designing and operation, and general fermentation processes. Through this lecture, students learn the knowledge of experimental design in conventional bioprocess engineering.	Experiment + Practice	
259	1	지교	0247	물리및실험1	PHYSICS & LAB. I	3.0	4.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Wed05-08 1100-1300(생455), Wed13-16 1500-1700(이실107)	자밀우하마드	English	Systematic presentation and demonstrations of fundamental concepts of physics and their applications to natural phenomena. Students are requested to take this course to acquire basic tools for their major fields. It covers mechanics, waves, thermal and statistical physics.	Theory+ Experiment	
260	1	지교	0496	미생물학	MICROBIOLOGY	3.0	3.0	분자생명공학, 생명자원식품공	MOLECULAR BIOTECHNOLOGY, BIO RESOURCES & FOOD SCIENCE	Tue04-06 1030-1200(생453), Thu01-03 0900-1030(생453)	천세철	English	The course is to learn the general knowledge on microorganism and its application in relation to microbial biotechnological industry. Also, the course has the objective for students to understand characteristics and biology of microorganisms. The lecture include the structure of microorganisms such fungi, bacteria and virus, etc., physiology, genetics, metabolism and areas of microbial biotechnology.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
261	1	지교	0498	일반화학	GENERAL CHEMISTRY	3.0	3.0	분자생명공학, 생명자원식품공	MOLECULAR BIOTECHNOLOGY, BIO RESOURCES & FOOD SCIENCE	Mon01-02 0900-1000(생151), Wed01-04 0900-1100(생151)	김영수	English	The course is to learn the general idea of modern chemistry, including basic units, calculation methods, atomic and molecular theory, reaction kinetics and dynamics.	Theory	
262	2	전선	3216	생물유기화학	BIO ORGANIC CHEMISTRY	3.0	3.0	생명과학	BIOLOGICAL SCIENCES	Wed10-12 1330-1500(이과201), Fri10-12 1330-1500(이B104)	김동학	English	A study of basic concepts of organic chemistry to understand the biological process	Theory	
263	2	전선	3217	생물유기화학	BIO ORGANIC CHEMISTRY	3.0	3.0	생명과학	BIOLOGICAL SCIENCES	Wed15-17 1600-1730(이B101), Fri03-05 1000-1130(이B104)	김동학	English	A study of basic concepts of organic chemistry to understand the biological process	Theory	
264	2	전선	3218	생화학1	BIOCHEMISTRY 1	3.0	3.0	생명과학	BIOLOGICAL SCIENCES	Mon01-03 0900-1030(이B104), Wed04-06 1030-1200(이B104)	조명환	English	This course will covers the topics about the structures and characteristics of carbohydrates, lipid, protein, and nucleic acid.	Theory	
265	2	전선	3219	생화학1	BIOCHEMISTRY 1	3.0	3.0	생명과학	BIOLOGICAL SCIENCES	Mon04-06 1030-1200(이B104), Wed01-03 0900-1030(이B104)	조명환	English	This course will covers the topics about the structures and characteristics of carbohydrates, lipid, protein, and nucleic acid.	Theory	
266	3	전선	3220	동물생리학및실험	ANIMAL PHYSIOLOGY & LAB	3.0	4.0	생명과학	BIOLOGICAL SCIENCES	Wed01-04 0900-1100(이과201) (b-러닝), Thu09-12 1300-1500(이실401) (b-러닝)	정지혜	English	Introduction to animal physiological principles, emphasizing metabolism, irritability, reproduction, movement, adaptation, and experiments concerning the function of physiological materials.	Theory+ Experiment	
267	3	전선	3221	동물생리학및실험	ANIMAL PHYSIOLOGY & LAB	3.0	4.0	생명과학	BIOLOGICAL SCIENCES	Wed05-08 1100-1300(이과201) (b-러닝), Thu01-04 0900-1100(이실401) (b-러닝)	정지혜	English	Introduction to animal physiological principles, emphasizing metabolism, irritability, reproduction, movement, adaptation, and experiments concerning the function of physiological materials.	Theory+ Experiment	
268	2	전필	2221	분자생물학	MOLECULAR BIOLOGY	3.0	3.0	생명과학	BIOLOGICAL SCIENCES	Tue01-03 0900-1030(법204), Thu09-11 1300-1430(이B104)	이임순, 이영한, 윤혜섭	English	- Provide general introduction of molecular biology - Lecture will cover features of genetics and gene, omics biology including genome, transcriptome, proteom and metabolome; gene expression regulation. - Theory: 100%	Theory	
269	2	전필	2222	분자생물학	MOLECULAR BIOLOGY	3.0	3.0	생명과학	BIOLOGICAL SCIENCES	Tue04-06 1030-1200(법204), Thu01-03 0900-1030(이B104)	이임순, 이영한, 윤혜섭	English	- Provide general introduction of molecular biology. - Lecture will cover features of genetics and gene, omics biology including genome, transcriptome, proteom and metabolome; gene expression regulation - Theory: 100%	Theory	
270	2	전선	3391	미생물학및실험	GENERAL MICROBIOLOGY AND LAB	3.0	4.0	공통과학, 생명과학	BIOLOGICAL SCIENCES	Mon01-04 0900-1100(이실401), Fri06-09 1130-1330(이B104)	강린우	English	Overview of basic principles and characteristics of microorganism, including taxonomy, structure, metabolism, growth, genetics, and techniques to culture and identify microorganisms.	Theory+ Experiment	
271	2	전선	3392	미생물학및실험	GENERAL MICROBIOLOGY AND LAB	3.0	4.0	공통과학, 생명과학	BIOLOGICAL SCIENCES	Mon09-12 1300-1500(이실401), Fri13-16 1500-1700(이B104)	강린우	English	Overview of basic principles and characteristics of microorganism, including taxonomy, structure, metabolism, growth, genetics, and techniques to culture and identify microorganisms.	Theory+ Experiment	
272	3	전필	2998	식품화학	FOOD CHEMISTRY	3.0	3.0	분자생명공학, 생명자원식품공	MOLECULAR BIOTECHNOLOGY, BIO RESOURCES & FOOD SCIENCE	Mon04-06 1030-1200(생253), Wed01-03 0900-1030(생253)	이시경	English	This course provides the physical and chemical properties of carbohydrate, protein, lipid, pigment and taste components in food. It emphasizes the functions and changes of items previously mentioned above.	Theory	
273	4	전선	4187	세미나	SEMINAR	3.0	3.0	분자생명공학, 생명자원식품공	MOLECULAR BIOTECHNOLOGY, BIO RESOURCES & FOOD SCIENCE	Fri01-06 0900-1200(생453)	김두환	English	The course is about the skill development of efficient presentation of various subjects, including research, projects and etc.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
274	3	전선	4192	식품공학	FOOD TECHNOLOGY	3.0	3.0	분자생명공학, 생명자원식품공	MOLECULAR BIOTECHNOLOGY, BIO RESOURCES & FOOD SCIENCE	Tue10-12 1330-1500(생453), Thu07-09 1200-1330(생453)	최미정	English	Food engineering is a multidisciplinary field of applied physical sciences which combines science, microbiology, and engineering education for food and related industries. Food engineering includes, but is not limited to, the application of agricultural engineering, mechanical engineering and chemical engineering principles to food materials. Food engineers provide the technological knowledge transfer essential to the cost-effective production and commercialization of food products and services.	Theory	
275	2	전선	4194	응용미생물학	APPLIED MICROBIOLOGY	3.0	3.0	분자생명공학, 생명자원식품공	MOLECULAR BIOTECHNOLOGY, BIO RESOURCES & FOOD SCIENCE	Tue01-03 0900-1030(생253), Thu04-06 1030-1200(생253)	이시경	English	Classification, structure, property and applied field of yeast, mold, bacteria widely used in industry are explained extensively, and microbial growth theory and factors on growth are lectured on.	Theory	
276	3	전필	2202	대기오염제어공학 및설계	AIR POLLUTION CONTROL DESIGN	3.0	3.0	환경공학과	ENVIRONMENTAL ENGINEERING	Mon04-06 1030-1200(공A404), Tue04-06 1030-1200(공A404)	김조천	English	The air pollutants emitted from automobiles and industrial sources are divided into two groups, particulate matters and gaseous air pollutants. The principal theories and control design approaches for removing major air pollutants will be studied and exercised. More specifically, engineering control concept, control methods of particulate and gaseous air pollutants, control approaches of stationary and mobile sources will be associated with this subject. The lecture on the air pollutant control techniques such as cyclone, ESP, bag filter, incineration, adsorption, absorption will be delivered, and the practical design approach will be also made.	Theory	
277	2	전선	3313	환경유체역학	ENVIRONMENTAL FLUID MECHANICS	3.0	3.0	환경공학과	ENVIRONMENTAL ENGINEERING	Mon04-06 1030-1200(공B567), Wed04-06 1030-1200(공A404)	김한승	English	One of the core lecture prerequisites to the environmental sciences and engineering area. Fundamentals and practices of fluid mechanics as a basic engineering tool for analyzing the movement of air and water, representative fluids in environmental engineering. The key subjects include fluid properties, fluid statics and dynamics, laminar and turbulent flows, basic concepts of similitude, fundamental theories of basic hydraulics (pipes or close channel), etc.	Theory	
278	4	전선	3314	수질모델링	WATER QUALITY MODELING	3.0	4.0	환경공학과	ENVIRONMENTAL ENGINEERING	Mon10-17 1330-1730(새301)	권지향	English	Basic physics, chemical, and biological properties of streams, reservoirs, and groundwater; methods for analysis of water quality problems; mathematical modeling (such as QUAL2K) of movement and fate of pollutants and other substances including dissolved oxygen, nutrients, and toxic substances; application of methods of analysis to development of a water quality management plan for a water-body. Lectures designed to provide exposure to the use of traditional analysis tools and computational techniques in analysis, calibration, and verification.	Theory+ Experiment	
279	2	전선	3315	환경미생물학 및실험	ENVIRONMENTAL MICROBIOLOGY & LAB.	3.0	4.0	환경공학과	ENVIRONMENTAL ENGINEERING	Tue01-08 0900-1300(공B567)	디비폴	English	One of the core lecture prerequisite to the water quality and solid waste engineering major. Fundamentals of microbiology and biochemistry as applied to environmental pollution and treatment processes, Energetics and kinetics of microbial growth, Biological fate of pollutants. Emphasis is placed on the application of these concepts to biogeochemical cycling, water and wastewater microbiology, pollutant degradation, and microbial ecology. Introduction to laboratory techniques.	Theory+ Experiment	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
280	3	전선	3317	정수공학및설계	WATER TREATMENT PROCESS DESIGN	3.0	3.0	환경공학과	ENVIRONMENTAL ENGINEERING	Tue16-18 1630-1800(공A404), Thu04-06 1030-1200(공A404)	권지향	English	Theoretical understanding of conventional and advanced treatment processes in drinking water system are conducted. Ability of planning and design of the processes are educated. The covered processes are mainly physical and chemical processes: coagulation/sedimentation, filtration, and disinfection as conventional water treatment processes, and adsorption, softening, membrane process, ion exchange, and corrosion control as advanced processes.	Theory	
281	4	전선	3318	지하수오염및정화	GROUNDWATER CONTAMINATION AND REMEDIATION	3.0	3.0	환경공학과	ENVIRONMENTAL ENGINEERING	Tue10-12 1330-1500(공B567), Wed10-12 1330-1500(공B567)	김한승	English	The objective of this course to introduce techniques for qualitative and quantitative analysis of characterization, transport, and fate of contaminants in the groundwater through soil matrix porous media. The detailed subjects introduced in this course are for groundwater hydrology and hydraulics, identification and characterization of contaminants and their fate, and toxicological impacts and risk assessment.	Theory	
282	2	전선	3321	환경화학및실험	ENVIRONMENTAL CHEMISTRY & LAB.	3.0	4.0	환경공학과	ENVIRONMENTAL ENGINEERING	Thu11-18 1400-1800(공A404)	정해근	English	One of the core lecture prerequisite to the water quality engineering major. Principles of water One of the core lecture prerequisite to the water quality engineering major. Principles of water chemistry and physical-chemical water quality analyses applicable to water and wastewater treatment systems and water quality management. Provides understanding of theory and analytical skills, emphasizing development of basic capability of engineer through exercising how to observe, think, and report. Analyses of major water quality parameters follow Korean and APHA's Standard Methods, and include experience in basic instrumental analyses as well. One lecture and one laboratory weekly.	Theory+ Experiment	Environmental engineering students only
283	4	전선	3323	환경영향평가	ENVIRONMENTAL IMPACT ASSESMENT	3.0	4.0	환경공학과	ENVIRONMENTAL ENGINEERING	Fri13-19 1500-1900(공A404)	디비폴	English	Methodologies of environmental impact assessment for large-scale development projects; analysis of environmental factors, impact prediction, and comprehensive assessment for physical-chemical, ecological, cultural, and socioeconomic environments as well as related laws and regulation. Exercises through analyzing practical examples of environmental impact assessment and preparing an assessment report.	Theory	Environmental engineering students only
284	1	지교	0471	컴퓨터	COMPUTER	3.0	3.0	환경공학과	ENVIRONMENTAL ENGINEERING	Wed01-06 0900-1200(새302)	디비폴	English	History of the computer, computer architecture, programming language, and miscellaneous aspects of computer science.	Theory	
285	3	전필	2030	철근콘크리트 설계	REINFORCED CONCRETE DESIGN	3.0	3.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Tue07-09 1200-1330(생454), Thu10-12 1330-1500(생454)	이수진	English	Analysis and design of beams, one-way slabs, and columns. Preliminary design of building frames using pattern loading and moment coefficients.	Theory	
286	2	전선	3233	건설재료학 및 실험	CONSTRUCTION MATERIALS & LAB	3.0	4.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Tue01-04 0900-1100(생454), Thu03-06 1000-1200(생454)	원종필	English	Introduces composition, structure. properties, behavior and selection of construction materials.	Theory+ Experiment	
287	4	전선	3234	기초공학	FOUNDATION ENGINEERING	3.0	3.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Tue10-12 1330-1500(생455), Thu07-09 1200-1330(생455)	이석원	English	Design of basic foundation structures : shallow foundations, retaining walls, deep foundations.	Theory	
288	4	전선	3235	수자원시스템공학	WATER RESOURCES SYSTEM ENGINEERING	3.0	3.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Mon04-06 1030-1300(생451), Wed01-03 0900-1030(생451)	김선주	English	Hydrological analysis, frequency analysis, reservoirs and dams, hydro-power generation, planning of water resources development projects, engineering approaches for the multipurpose use of water resources systems, flood control.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
289	2	전선	3236	재료역학	MECHANICS OF MATERIALS	3.0	3.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Mon04-06 1030-1200(생453), Wed01-03 0900-1030(생453)	김기두	English	Stresses and strains acting on material, torsion of circular shafts and thin-walled tubes, stresses in beams, unsymmetrical bending with shear center of thin-walled sections, buckling and stability of column, columns with eccentric axial loads, principle of virtual work	Theory	
290	4	전선	3240	콘크리트구조물 설계	DESIGN OF CONCRETE STRUCTURES	3.0	3.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Tue07-09 1200-1330(생455), Thu10-12 1330-1500(생455)	원종필	English	The primary objective of this course is to explain the basic concepts necessary to understand and predict the response of prestressed concrete members and to design prestressed concrete structures.	Theory	
291	3	전선	3243	환경공학개론	INTRODUCTION TO ENVIRONMENTAL ENGINEERING	3.0	3.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Mon04-06 1030-1200(생455), Wed01-03 0900-1030(생455)	박기영	English	Introduction to the engineering aspects of environmental systems to include such topics as water quality, air pollution and control, solid and hazardous waste management, environmental impact assessment, and governmental regulation.	Theory	
292	2	전선	3244	수환경학	WATER AND ENVIRONMENT	3.0	3.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Mon13-15 1500-1630(생253), Wed16-18 1630-1800(생452)	박대룡	English	Learn and understand the fundamental knowledge of water and environment.	Theory	
293	2	전선	3245	건설재료학및실험	CONSTRUCTION MATERIALS & LAB	3.0	4.0	사회환경시스템공	CIVIL & ENVIRONMENTAL SYSTEM ENGINEERING	Wed09-12 1300-1500(생453), Thu03-06 1000-1200(생454)	원종필	English	Introduces composition, structure, properties, behavior and selection of construction materials.	Theory+ Experiment	
294	4	전선	3413	저영향개발론	LOW IMPACT DEVELOPMENT	3.0	3.0	녹지환경계획	ENVIRONMENTAL PLANNING	Tue07-09 1200-1330(생452), Thu10-12 1330-1500(생452)	안경진	English	LID technology introduced in this class is an alternative comprehensive approach to stormwater management and landscape planning. Students can learn LID techniques that can be used to address a wide range of urban environmental issues in this class with rich applied examples and field trips.	Theory	
295	3	전선	3410	생태조경계획	ECOLOGICAL LANDSCAPE PLANNING	3.0	3.0	환경과학, 녹지환경계획	ENVIRONMENTAL PLANNING	Mon01-03 0900-1030(생452), Wed04-06 1030-1200(생452)	안경진	English	Ecological Landscape Planning is a fundamental course of landscape design. It synthesizes brief history and developments of landscape architecture profession. This class also introduces ecological approach in landscape design and planning, which has been recognized as a tool of sustainable design method.	Theory	
296	2	전선	4001	도시지리학및실습	URBAN GEOGRAPHY AND LAB	3.0	4.0	지리	GEOGRAPHY	Mon09-12 1300-1500(01B108) (b-러닝), Tue13-16 1500-1700(01B105) (b-러닝)	최재현	English	It will focus on the theoretical aspect of urban geography including theories, conceptual framework, and case studies from the global and the local in terms of urban origin, urban growth, urban system, urban structure and urban planning.	Theory+ Experiment	
297	4	전선	4009	사회공간과 지리적사고	SOCIO-SPACE AND GEOGRAPHICAL THOUGHT	3.0	3.0	지리	GEOGRAPHY	Tue10-12 1330-1500(01B105), Thu05-07 1100-1230(이실108)	김숙진	English	Discussion on the nature of geography and development of geographical thought focusing on the formation of socio-space and its interaction with nature.	Theory	
298	2	전선	4000	대기과학의기초 및실습	INTRODUCTION TO ATMOSPHERIC SCIENCE AND LAB.	3.0	4.0	공통과학, 지리	GEOGRAPHY	Tue05-08 1100-1300(이실108), Thu05-08 1100-1300(01B108)	최영은	English	Weather influences our daily lives in so many ways as well as some of the greatest challenges we face come in the form of natural disasters created by weather. In recent years, weather and climate have got more attention due to the occurrence of environmental issues such as from greenhouse warming and ozone depletion in the stratosphere to the global weather influence of El Nino. The main purpose of this class is to convey meteorological concepts and it covers the origin, composition, and structure of the atmosphere, solar energy, air temperature, humidity, clouds, precipitation and winds.	Theory+ Experiment	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
299	2	전선	4002	암석지질학및실 험	PETROGEOLOGY AND LAB	3.0	4.0	공통과학, 지리	GEOGRAPHY	Mon01-04 0900-1100(01B105), Wed01-04 0900-1100(01B105)	박종관	English	Petrogeology is an essential subject for students who want to study physical geography. The contents consist of the petrologic details like rock forming mineral and its properties based on the geological knowledge as earth structure, tectonics and resource distribution.	Theory+ Experiment	
300	3	전선	4003	경제지리학및실 습	ECONOMIC GEOGRAPHY AND LAB	3.0	4.0	공통사회, 지리	GEOGRAPHY	Tue05-08 1100-1300(01B105) (b-러닝), Thu01-04 0900-1100(01B105) (b-러닝)	김숙진	English	Discussion on location of economic activity; models and theories of economic geography; case studies of industries and services at global, national, regional, and local levels; spatial patterns and characteristics of international trade and foreign direct investment; Formation of global world economy systems throughout globalization and globality.	Theory+ Experiment	
301	3	전선	4004	수문학및실험	HYDROLOGY & LAB.	3.0	4.0	공통과학, 지리	GEOGRAPHY	Tue09-12 1300-1500(이실202), Wed05-08 1100-1300(이실202)	박종관	English	Introduction to hydrology; examination of the global hydrological cycle and its components; description and analysis of the processes of water movement and storage. Hydrology is the study of the movement, distribution, and quality of water throughout the Earth, including the hydrologic cycle and water resources. A practitioner of hydrology is a hydrologist, working within the fields of either earth or environmental science, physical geography, geology or civil and environmental engineering.	Theory+ Experiment	
302	2	전필	2056	재료역학	MECHANICS OF MATERIALS	3.0	3.0	토목공학과	CIVIL ENGINEERING	Tue04-06 1030-1200(공C481), Thu04-06 1030-1200(공C481)	이태형	English	Stresses and strains acting on material, torsion of circular shafts and thin-walled tubes, stresses in beams, unsymmetrical bending with shear center of thin-walled sections, buckling and stability of column, columns with eccentric axial loads, principle of virtual work	Theory	
303	3	전선	3464	RC구조공학	REINFORCED CONCRETE STRUCTURES	3.0	3.0	토목공학과	CIVIL ENGINEERING	Mon01-03 0900-1030(공C385), Wed01-03 0900-1030(공C385)	이용학	English	Basic concepts of RC structure as composite materials, design and analysis of RC beams subjected to bending, shear, and torsion, anchorage and bond of re-bar in concrete, serviceability of RC structures.	Theory	
304	4	전선	3465	콘크리트구조물의 설계	DESIGN OF CONCRETE STRUCTURES	3.0	4.0	토목공학과	CIVIL ENGINEERING	Tue03-06 1000-1200(공B564), Thu03-06 1000-1200(공B564)	이용학	English	Study of the strength, behavior, and design of reinforced concrete slab systems, footings, and retaining walls.	Theory+ Experiment	
305	4	전선	3469	수리시스템설계	HYDRAULIC SYSTEM DESIGN	3.0	4.0	토목공학과	CIVIL ENGINEERING	Mon03-06 1000-1200(공B564), Wed03-06 1000-1200(공B564)	성기원	English	This course is designated a design course. Hydraulic systems design involves the application of the general principles of hydraulics to the solution of practical civil and environmental engineering problems. The principles of conservation of mass, conservation of energy, and conservation of momentum are most used in the solution of pipelines and open channel design problems.	Theory+ Experiment	
306	3	전선	3502	구조동역학	INTRODUCTIONS TO STRUCTURAL DYNAMICS	3.0	3.0	토목공학과	CIVIL ENGINEERING	Mon13-15 1500-1630(공B564), Wed13-15 1500-1630(공B564)	추프랑사	English	The fundamental concepts of statics and dynamics of rigid bodies, force and motion, and equilibrium of forces in plane and space are studied in this subject. This subject will provide sound ground in continuing studies as structural mechanics	Theory	
307	3	전선	3447	한국영화사	KOREAN CINEMA HISTORY	3.0	3.0	영화	FILM (MOVIES)	Tue03-08 1000-1300(예413)	이주연	English	Research on Korean cinema : text, author and history.	Theory	
308	1	지교	0003	2D컴퓨터 애니메이션 1	2D COMPUTER ANIMATION 1	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Mon03-10 1000-1400(예221)	서영주	English	Basic Digital Workshop required by the major.	Theory+ Experiment	Moving image students only
309	1	지교	0004	2D컴퓨터 애니메이션 1	2D COMPUTER ANIMATION 1	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Mon13-19 1500-1900(예221)	서영주	English	Basic Digital Workshop required by the major.	Theory+ Experiment	Moving image students only

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310	2	지교	0006	기초3D컴퓨터 애니메이션	BASIC 3D COMPUTER ANIMATION	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Tue11-18 1400-1800(예306)	최승원	English	This course provides a focused exploration of 3D Character modeling and animation setup.	Theory+ Experiment	Moving image students only
311	2	지교	0007	기초3D컴퓨터 애니메이션	BASIC 3D COMPUTER ANIMATION	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Thu03-10 1000-1400(예306)	최승원	English	This course provides a focused exploration of 3D Character modeling and animation setup.	Theory+ Experiment	Moving image students only
312	1	지교	0022	스토리화표현	STORY & EXPRESSION	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Tue13-19 1500-1900(예218)	김시현	English	Students work in a workshop atmosphere developing writing and drawing skill.	Theory+ Experiment	Moving image students only
313	1	지교	0023	스토리화표현	STORY & EXPRESSION	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Tue05-12 1100-1500(예218)	김시현	English	Students work in a workshop atmosphere developing writing and drawing skill.	Theory+ Experiment	Moving image students only
314	1	전필	2015	라이프드로잉1	LIFE DRAWING 1	2.0	3.0	영상	MOVING IMAGE (ANIMATION)	Tue13-18 1500-1800(예B101)	홍성환	English	Life drawing of the human figure will include the study of anatomical design, structuring perspective.	Theory+ Experiment	Moving image students only
315	1	전필	2016	라이프드로잉1	LIFE DRAWING 1	2.0	3.0	영상	MOVING IMAGE (ANIMATION)	Tue05-10 1100-1400(예B101)	홍성환	English	Life drawing of the human figure will include the study of anatomical design, structuring perspective.	Theory+ Experiment	Moving image students only
316	3	전선	3027	디지털인터랙티브 애니메이션 1	DIGITAL INTERACTIVE ANIMATION 1	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Thu03-10 1000-1400(예221)	박상현	English	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+ Experiment	Moving image students only
317	2	전선	3040	뮤직비디오워크샵	MUSIC VIDEO WORKSHOPS	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Wed03-10 1000-1400(예306)	한요한	English	This course is for students who have a sustained interest in using video technology as part of their Music Video making. Participants work on a project-oriented basis that include individual critiques, special class meetings, practicums, and equipment workshops. Students should be both self-directed and interested in developing a support system for producing each other's work.	Theory+ Experiment	
318	2	전선	3041	뮤직비디오워크샵	MUSIC VIDEO WORKSHOPS	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Wed11-18 1400-1800(예306)	한요한	English	This course is for students who have a sustained interest in using video technology as part of their Music Video making. Participants work on a project-oriented basis that include individual critiques, special class meetings, practicums, and equipment workshops. Students should be both self-directed and interested in developing a support system for producing each other's work.	Theory+ Experiment	
319	2	전선	3051	스토리보드1	STORYBOARD 1	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Fri13-19 1500-1900(예413)	정준호	English	Students work in a workshop of construction of film languages.	Theory+ Experiment	Moving image students only
320	2	전선	3052	스토리보드1	STORYBOARD 1	3.0	4.0	영상	MOVING IMAGE (ANIMATION)	Fri05-12 1100-1500(예413)	정준호	English	Students work in a workshop of construction of film languages.	Theory+ Experiment	Moving image students only

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
321	2	전선	3102	입체구성1	DRAPING 1	3.0	4.0	의상디자인	APPAREL DESIGN	Mon11-18 1400-1800(배622)	박명희	English	Basic bodice, skirt, sleeves, and collars are draped in muslin on the dress form.	Theory+ Experiment	
322	2	전선	3109	의복구성3	CONSTRUCTION OF CLOTHING III	3.0	4.0	의상디자인	APPAREL DESIGN	Tue01-08 0900-1300(배623)	신현숙	English	Application of techniques previously studied, applying them to complete pattern for dresses and vests.	Theory+ Experiment	
323	2	전선	3110	의복구성3	CONSTRUCTION OF CLOTHING III	3.0	4.0	의상디자인	APPAREL DESIGN	Fri11-18 1400-1800(배622)	차유미	English	Application of techniques previously studied, applying them to complete pattern for dresses and vests.	Theory+ Experiment	
324	2	전선	3117	패션드로잉1	FASHION DRAWING 1	3.0	4.0	의상디자인	APPAREL DESIGN	Tue01-08 0900-1300(배621)	서성은	English	Basic training for drawing which is used in apparel design. This course includes the theory of body proportion, balance and movement, anatomy of human body.	Theory+ Experiment	
325	4	전선	3118	패션스튜디오2	FASHION STUDIO 2	3.0	4.0	의상디자인	APPAREL DESIGN	Mon11-18 1400-1800(배601)	이소영, 고현진	English	It is a practice phase for the graduation exhibition in which students cover the whole course regarding the starting a collection: market analysis, planning, choosing creating designs, actual construction of chosen designs, presentation, putting together into portfolio, etc.	Theory+ Experiment	
326	4	전선	3119	패션스튜디오2	FASHION STUDIO 2	3.0	4.0	의상디자인	APPAREL DESIGN	Tue11-18 1400-1800(배601)	이소영, 고현진	English	It is a practice phase for the graduation exhibition in which students cover the whole course regarding the starting a collection: market analysis, planning, choosing creating designs, actual construction of chosen designs, presentation, putting together into portfolio, etc.	Theory+ Experiment	
327	4	전선	3120	패션스튜디오2	FASHION STUDIO 2	3.0	4.0	의상디자인	APPAREL DESIGN	Wed11-18 1400-1800(배601)	이소영, 고현진	English	It is a practice phase for the graduation exhibition in which students cover the whole course regarding the starting a collection: market analysis, planning, choosing creating designs, actual construction of chosen designs, presentation, putting together into portfolio, etc.	Theory+ Experiment	
328	3	전선	3125	패션실무영어2	FASHION BUSINESS ENGLISH2	2.0	3.0	의상디자인	APPAREL DESIGN	Tue03-08 1000-1300(배412)	정윤주	English	Practices English terms which are important in fashion business and focuses on conversation in the business situations.	Theory+ Experiment	
329	3	전선	3127	테일러링	TAILORING	3.0	4.0	의상디자인	APPAREL DESIGN	Wed11-18 1400-1800(배623)	최창숙	English	Professional practices of making coat and suits, including construction processes, assembling procedures, decorative details and finishes for tailored garments.	Theory+ Experiment	
330	2	전선	2805	공간구성1	SPACE & COMPOSITION 1	3.0	4.0	산업디자인	INDUSTRIAL DESIGN	Tue11-18 1400-1800(배720)	김상훈	English	The course aims to produce and express works with the mixture of various design elements such as shape and structure of space, materials, light, sound, movement, and time.	Theory+ Experiment	
331	3	전선	4744	UX디자인	USER EXPERIENCE DESIGN	3.0	4.0	산업디자인	INDUSTRIAL DESIGN	Tue03-10 1000-1400(배721)	강성중	English	The course will cover interaction design method to create distinguished user experience. Through the course, the students will experience general UX design process which is applicable to products as well as a wide range of services.	Theory+ Experiment	
332	3	전선	4746	디자인커뮤니케이션	DESIGN COMMUNICATION	2.0	3.0	산업디자인	INDUSTRIAL DESIGN	Wed11-16 1400-1700(배702)	조소연	English	As design is located as main body for innovation in the society and business, designers need cooperation with various experts in the other fields. Students study methods and techniques for effective communication with experts in other fields.	Theory+ Experiment	
333	3	전선	4747	디자인커뮤니케이션	DESIGN COMMUNICATION	2.0	3.0	산업디자인	INDUSTRIAL DESIGN	Mon03-08 1000-1300(배702)	김윤전	English	As design is located as main body for innovation in the society and business, designers need cooperation with various experts in the other fields. Students study methods and techniques for effective communication with experts in other fields.	Theory+ Experiment	
334	2	전선	4756	디자인사례연구	DESIGN CASE STUDY	2.0	3.0	산업디자인	INDUSTRIAL DESIGN	Tue03-08 1000-1300(배702)	석금주	English	Students will analyze factors for success and failure of design with various perspectives. Students will get lessons of design and marketing from these cases, and understand design with macro views.	Theory+ Experiment	

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335	2	전선	4757	디자인사례연구	DESIGN CASE STUDY	2.0	3.0	산업디자인	INDUSTRIAL DESIGN	Mon11-16 1400-1700(베702)	김현정	English	Students will analyze factors for success and failure of design with various perspectives. Students will get lessons of design and marketing from these cases, and understand design with macro views.	Theory+ Experiment	
336	4	전선	4758	산업디자인세미나	INDUSTRIAL DESIGN SEMINAR	2.0	3.0	산업디자인	INDUSTRIAL DESIGN	Fri01-06 0900-1200(베702)	최소현	English	Students explores design issues in our society, analyze them with diverse perspectives, search directions for design development through research and discussion, and get insights for design.	Theory+ Experiment	
337	4	전선	4761	UX디자인스튜디오1	UX DESIGN STUDIO 1	3.0	4.0	산업디자인	INDUSTRIAL DESIGN	Fri11-18 1400-1800(베702)	강성중, 강슬기	English	In UX Design Studio 1, Each students will create and produce design works instead of writing a graduation thesis. Students will explore the problem-solving methods based upon UX design principles.	Theory+ Experiment	
338	3	전선	3289	텍스타일CAD	TEXTILE CAD	3.0	4.0	텍스타일디자인전공	TEXTILE DESIGN	Wed01-08 0900-1300(새304)	전유미	English	Students will be able to develop creative designs using Textile CAD program.	Theory+ Experiment	
339	3	전선	3290	니트디자인2	KNIT 2	3.0	4.0	텍스타일디자인전공	TEXTILE DESIGN	Mon11-18 1400-1800(베520)	김성달	English	Students will innovate and challenge new knit design ideas by developing technical skills using various knitting machine.	Theory+ Experiment	
340	2	전선	3291	위빙디자인1	WEAVING DESIGN 1	3.0	4.0	텍스타일디자인전공	TEXTILE DESIGN	Thu01-08 0900-1300(베520)	우승걸	English	Students will develop their knowledges and technical skills for woven textile design.	Theory+ Experiment	
341	4	전선	3293	텍스타일 제품연구	TEXTILE PRODUCT STUDY	3.0	4.0	텍스타일디자인전공	TEXTILE DESIGN	Wed01-08 0900-1300(베520)	김성달	English	Students will create commercial textile products with their own textile design and materials.	Theory+ Experiment	
342	2	전선	3295	텍스타일 비즈니스영어	TEXTILE BUSINESS ENGLISH	2.0	2.0	텍스타일디자인전공	TEXTILE DESIGN	Tue11-14 1400-1600(베501)	양나혜	English	Practices business English in various situations which are important in textile industry.	Theory	
343	4	전선	3296	텍스타일소재 프로젝트1	TEXTILE MATERIAL PROJECT	3.0	4.0	텍스타일디자인전공	TEXTILE DESIGN	Wed11-18 1400-1800(베521)	오연옥	English	Students will create textile materials collection for the graduation exhibition.	Theory+ Experiment	
344	3	전선	3297	트렌드분석방법론	TREND STUDY	2.0	2.0	텍스타일디자인전공	TEXTILE DESIGN	Thu05-08 1100-1300(베502)	김재원	English	The purpose of this course is to enhance ability to analyze design trends, include textile design, and cultivates the view to predict future trends.	Theory	
345	1	전선	3298	기초CAD1	BASIC CAD 1	2.0	3.0	텍스타일디자인전공	TEXTILE DESIGN	Fri03-08 1000-1300(새304)	조원강	English	Students will study computer aided design process using Photoshop program.	Theory+ Experiment	
346	2	전선	3299	기초소재 텍스처연구	BASIC TEXTILE TEXTURE STUDY	2.0	3.0	텍스타일디자인전공	TEXTILE DESIGN	Tue03-08 1000-1300(베521)	홍성숙	English	Students will study basic knowledges of various textile materials, its applications and process.	Theory+ Experiment	
347	3	전선	3300	텍스타일 소재개발	TEXTILE MATERIAL DEVELOPMENT	3.0	4.0	텍스타일디자인전공	TEXTILE DESIGN	Thu11-18 1400-1800(베521)	오연옥	English	This course is combined practical and intensive skills with an understanding of technical to develop creative fabrics. Textile material development could contribute to enhancing the aesthetic value of goods and differentiating their brand images in the textile market.	Theory+ Experiment	
348	1	전선	3662	배구	VOLLEY BALL	1.0	2.0	체육교육과	PHYSICAL EDUCATION	Thu09-12 1300-1500(체육관A)	김원중	English	Development of physical education teachers for elementary schools. History and feature, scientific basis, basic and applied skills, and instructional and evaluative methods of volleyball. Development of physical strength through volleyball and improving quality as democratic citizens by cultivating sound social personalities.	Experiment + Practice	
349	2	전필	2142	기계체조지도법	TEACHING METHOD FOR GYMNASTICS	1.0	2.0	체육교육과	PHYSICAL EDUCATION	Fri05-08 1100-1300(체육관C)	김윤지	English	Aims to nurture athletic ability by allowing the student to develop the physical strength of the human body, such as muscular strength, staying power, agility, and flexibility, through attempting to develop as well as train in the techniques of gymnastics.	Experiment + Practice	
350	2	전필	2144	운동학습및심리	MOTOR LEARNING AND SPORT PSYCHOLOGY	3.0	3.0	체육교육과	PHYSICAL EDUCATION	Tue07-12 1200-1500(체육관A)	권택용	English	Developing sports techniques and bettering the athlete's performance by capitalizing on the psychological strategies capable of contributing to improvement of real competitive power.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
351	3	전필	2160	스포츠사회학	SPORTS SOCIOLOGY	3.0	3.0	체육교육과	PHYSICAL EDUCATION	Thu07-12 1200-1500(체육관C)	최영래	English	Research on teaching materials in the Department of Physical Education. study of method, structure, and operation of teaching learning in order to make efficient the overall learning activity of life sports. Improving ability to apply learning to the actual activity of sports sociology.	Theory	
352	2	전선	3831	테니스	TENNIS I	1.0	2.0	체육교육과	PHYSICAL EDUCATION	Wed13-16 1500-1700(체육관A)	권택용	English	Tennis is an event which anyone can enjoy with simple equipment and with emphasis on manners, regardless of sex and age. Thus, this course aims to have student develop concentration and endurance and strong spiritual strength.	Experiment + Practice	
353	3	전선	3833	무용교육	DANCE EDUCATION	2.0	2.0	체육교육과	PHYSICAL EDUCATION	Mon09-12 1300-1500(체육관A)	윤인애	English	History and characteristics of dance. Mastering the basic and applied skills of dance.	Experiment + Practice	
354	3	전선	3835	수상스포츠	AQUATIC SPORTS	1.0	2.0	체육교육과	PHYSICAL EDUCATION	Wed17-19 1700-1900(체육관A)	박경석	English	Provides prospective physical education teachers knowledge and skills related to the performance, analysis, and teaching of aquatic movement classes.	Experiment + Practice	
355	3	전선	3838	체육진로교육	CAREERS IN PHYSICAL EDUCATION	3.0	3.0	체육교육과	PHYSICAL EDUCATION	Fri07-12 1200-1500(체육관A)	박경석	English	Role of career education in elementary, middle, and secondary schools; major theories of career development; use of standardized assessment, career information resources, and curriculum materials; special issues and trends influencing work and careers.	Theory	
356	4	전선	3840	스포츠댄스	SPORTS DANCE	1.0	2.0	체육교육과	PHYSICAL EDUCATION	Mon13-16 1500-1700(체육관A)	윤인애	English	An introduction to the techniques and principles of dance.	Experiment + Practice	
357	1	전선	3661	기계체조1	GYMNASTICS I	1.0	2.0	체육교육과	PHYSICAL EDUCATION	Tue13-16 1500-1700(체육관C)	김윤지	English	Training in techniques of the heavy gymnastics sports and development of physical strength, such as muscular strength, endurance, agility, and flexibility.	Experiment + Practice	
358	4	전선	3976	도시환경계획	URBAN AND ENVIRONMENTAL PLANNING	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Mon07-09 1200-1330(산학220), Wed10-12 1330-1500(산학220)	우정현, 어양담	English	Students learn, 1. the urban development processes and factors as well as a relationship between urban strategy and planning, reciprocal effect among city functions. 2. the environmental planning processes which can minimize adverse effects to the environment. The course covers fundamental aspects of urban and environmental planning, such as Population estimation, land-use planning, transportation planning, and green area planning.	Theory	
359	4	전선	3978	IT연구프로세스	IT RESEARCH PROCESS	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Tue07-09 1200-1330(산학220), Thu10-12 1330-1500(산학220)	임상범	English	This course aims to design and develop virtual research environment for ongoing research project of non-IT area using Web and/or smart phone application. Students will gain an understanding of how to collaborate with other area of researchers and will also learn basic systems development and computer programming techniques and concepts.	Theory+ Experiment	
360	3	전선	3979	인체생리학	HUMAN PHYSIOLOGY	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Tue01-03 0900-1030(산학208), Thu04-06 1030-1200(산학208)	임현정	English	Physiology is the scientific study of function in living systems. This includes how organisms, organ systems, organ, cells and bio-molecules carry out the chemical or physical functions that exist in a living system. Understanding the physiological processes, specially mechanisms of neuroregulation and hormonal regulation of human are included.	Theory	
361	3	전선	3980	생화학1	BIOCHEMISTRY 1	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Mon16-18 1630-1800(생451), Wed13-15 1500-1630(생451)	한예선	English	This course will covers the topics about the structures and characteristics of carbohydrates, lipid, protein, and nucleic acid.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
362	3	전선	3984	대기환경관리	AIR QUALITY MANAGEMENT	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Mon10-12 1330-1500(산학220), Wed07-09 1200-1330(산학220)	우정현	English	This course is designed to provide knowledge for basic concepts of air quality management system. It includes principles of air pollutant emissions, atmospheric transport, air quality monitoring, health effects, and air pollution control. Recent air quality related problems, such as transboundary air pollution and climate change, are also introduced.	Theory	
363	2	전선	3985	전산학개론	INTRODUCTION TO COMPUTER SCIENCE	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Tue10-12 1330-1500(산학220), Thu07-09 1200-1330(산학220)	임상범	English	Introduction to Computer Science is a first course in computer science for every students. Programming experience is not required in this course. It aims to provide students with understanding of how to program, how to think more methodically, and how to solve problems more effectively.	Theory+ Experiment	
364	2	전선	3986	재료역학	MECHANICS OF MATERIALS	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Mon01-03 0900-1030(산학220), Wed04-06 1030-1200(산학220)	어양담	English	Stresses and strains acting on material, torsion of circular shafts and thin-walled tubes, stresses in beams, unsymmetrical bending with shear center of thin-walled sections, buckling and stability of column, columns with eccentric axial loads, principle of virtual work	Theory	
365	1	지교	0057	영어토론1	ENGLISH DISCUSSION 1	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Fri07-12 1200-1500(산학220)	김윤지	English	This course is designed for high intermediate 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 1 so that students are encouraged to write essays on the topics after each session.	Theory	Interdisciplinary Studies students only
366	1	지교	0214	영어작문1	ENGLISH COMPOSITION 1	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Tue10-12 1330-1500(산학207), Fri07-09 1200-1330(산학207)	최하영	English	This course aims to develop students' English writing skills. In order to develop students' ability to produce logical and clearly-stated written arguments and interpretations, students will practice critical reading, clear thinking, grammar for writing, and other technical skills.	Theory	
367	1	지교	0215	영어작문1	ENGLISH COMPOSITION 1	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Mon07-09 1200-1330(산학208), Wed10-12 1330-1500(산학208)	최하영	English	This course aims to develop students' English writing skills. In order to develop students' ability to produce logical and clearly-stated written arguments and interpretations, students will practice critical reading, clear thinking, grammar for writing, and other technical skills.	Theory	
368	3	전선	3643	글로벌문화의이해3	UNDERSTANDING OF GLOBAL CULTURE 3	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Mon10-12 1330-1500(산학208), Wed07-09 1200-1330(산학208)	최하영	English	This course aims at explicating contemporary Korean society through various key words related to cultural phenomena. The 10 key words are like the following: fetishism, capitalism, and consumer culture, which standardizes daily lives; culture of violence which spreads on young generation; lookism, expansion of the various mass media, and estate hot blast etc. This course will help students to increase their ability to understand cultural phenomena on the basis of these key words. I hope that the students can build up their view of the society at the end of this course.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
369	3	전선	3687	인간과자연	HUMAN AND NATURE	3.0	3.0	자율전공학부	INTERDISCIPLINARY STUDIES	Mon04-06 1030-1200(산학207), Wed01-03 0900-1030(산학207)		English	In every corner of the world, human has experienced a lot more environmental changes during last 25 years than the entire human history. This course will provide an invaluable opportunities for students to delve into the World's Great Natural Heritage which is the most precious gift. In relation to this, students will have in-depth research and discussion on each individual country's policy to preserve nature, its management and operation of land development, its energy and environmental issues as well.	Theory	
370	1	전필	2096	수의미생물학1	VETERINARY MICROBIOLOGY 1	3.0	3.0	수의학과	VETERINARY MEDICINE	Wed01-03 0900-1030(수307), Fri01-03 0900-1030(수410)	이상원	English	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	
371	1	전필	2097	수의미생물학1	VETERINARY MICROBIOLOGY 1	3.0	3.0	수의학과	VETERINARY MEDICINE	Wed04-06 1030-1200(수307), Fri04-06 1030-1200(수410)	이상원	English	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	
372	1	전필	2111	수의미생물학1실형	VETERINARY MICROBIOLOGY 1 LABORATORY	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue15-18 1600-1800(수207)	이상원	English	Laboratory sessions emphasize techniques used in the study of microorganisms.	Experiment + Practice	
373	1	전필	2112	수의미생물학1실형	VETERINARY MICROBIOLOGY 1 LABORATORY	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue11-14 1400-1600(수207)	이상원	English	Laboratory sessions emphasize techniques used in the study of microorganisms.	Experiment + Practice	
374	1	전필	2113	수의미생물학1실형	VETERINARY MICROBIOLOGY 1 LABORATORY	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue05-08 1100-1300(수207)	이상원	English	Laboratory sessions emphasize techniques used in the study of microorganisms.	Experiment + Practice	
375	1	전필	2114	수의미생물학1실형	VETERINARY MICROBIOLOGY 1 LABORATORY	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue01-04 0900-1100(수207)	이상원	English	Laboratory sessions emphasize techniques used in the study of microorganisms.	Experiment + Practice	
376	1	전필	2123	수의조직학1	VETERINARY HISTOLOGY 1	2.0	2.0	수의학과	VETERINARY MEDICINE	Wed09-12 1300-1500(수409)	장병준	English	Normal tissues of individual organs will be studied. Fine structure of cells, epithelial tissue, connective tissue, muscular tissue, nervous tissue will be instructed to have basic knowledge for other subjects.	Theory	
377	1	전필	2124	수의조직학1	VETERINARY HISTOLOGY 1	2.0	2.0	수의학과	VETERINARY MEDICINE	Mon09-12 1300-1500(수409)	장병준	English	Normal tissues of individual organs will be studied. Fine structure of cells, epithelial tissue, connective tissue, muscular tissue, nervous tissue will be instructed to have basic knowledge for other subjects.	Theory	
378	1	전필	2164	수의조직학1실습	VETERINARY HISTOLOGY 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue11-14 1400-1600(수408)	장병준	English	Fine structures of various tissues will be instructed by lecture and microscopic practice. Studies of cytology, basic tissues including epithelial, connective, muscular, nervous tissues are included.	Experiment + Practice	
379	1	전필	2165	수의조직학1실습	VETERINARY HISTOLOGY 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue15-18 1600-1800(수408)	장병준	English	Fine structures of various tissues will be instructed by lecture and microscopic practice. Studies of cytology, basic tissues including epithelial, connective, muscular, nervous tissues are included.	Experiment + Practice	

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380	1	전필	2166	수의조직학1실습	VETERINARY HISTOLOGY 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue01-04 0900-1100(수408)	장병준	English	Fine structures of various tissues will be instructed by lecture and microscopic practice. Studies of cytology, basic tissues including epithelial, connective, muscular, nervous tissues are included.	Experiment + Practice	
381	1	전필	2167	수의조직학1실습	VETERINARY HISTOLOGY 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue05-08 1100-1300(수408)	장병준	English	Fine structures of various tissues will be instructed by lecture and microscopic practice. Studies of cytology, basic tissues including epithelial, connective, muscular, nervous tissues are included.	Experiment + Practice	
382	2	전필	2136	수의전염병학1	VETERINARY INFECTIOUS DISEASE 1	3.0	3.0	수의학과	VETERINARY MEDICINE	Tue01-03 0900-1030(수510), Thu04-06 1030-1200(수510)	최인수	English	This course introduces the infectious diseases of domestic animals and companion animals. The etiology, epidemiology, pathogenesis, diagnosis, prevention and medication of diseases are discussed in the course. The emerging diseases in foreign countries are also introduced.	Theory	
383	2	전필	2137	수의전염병학1	VETERINARY INFECTIOUS DISEASE 1	3.0	3.0	수의학과	VETERINARY MEDICINE	Tue04-06 1030-1200(수510), Thu01-03 0900-1030(수510)	최인수	English	This course introduces the infectious diseases of domestic animals and companion animals. The etiology, epidemiology, pathogenesis, diagnosis, prevention and medication of diseases are discussed in the course. The emerging diseases in foreign countries are also introduced.	Theory	
384	2	전필	2808	수의전염병학1실험	VETERINARY INFECTIOUS DISEASE 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue09-12 1300-1500(수509)	최인수	English	Basic techniques for sampling and biochemical identification or PCR diagnosis of bacterial infectious diseases are practiced in the experimental course.	Experiment + Practice	
385	2	전필	2809	수의전염병학1실험	VETERINARY INFECTIOUS DISEASE 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue13-16 1500-1700(수509)	최인수	English	Basic techniques for sampling and biochemical identification or PCR diagnosis of bacterial infectious diseases are practiced in the experimental course.	Experiment + Practice	
386	2	전필	2810	수의전염병학1실험	VETERINARY INFECTIOUS DISEASE 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Tue17-19 1700-1900(수509)	최인수	English	Basic techniques for sampling and biochemical identification or PCR diagnosis of bacterial infectious diseases are practiced in the experimental course.	Experiment + Practice	
387	2	전필	2811	수의전염병학1실험	VETERINARY INFECTIOUS DISEASE 1 PRACTICE	1.0	2.0	수의학과	VETERINARY MEDICINE	Mon20-21 1900-2030(수509)	최인수	English	Basic techniques for sampling and biochemical identification or PCR diagnosis of bacterial infectious diseases are practiced in the experimental course.	Experiment + Practice	
388	3	전필	2181	수의외과학1	VETERINARY SURGERY I	5.0	5.0	수의학과	VETERINARY MEDICINE	Tue01-03 0900-1030(수306), Wed13-16 1500-1700(수306), Thu01-03 0900-1030(수410)	정순욱, 신일교수, 정다정, 김휘을, 윤현영	English	The lecture is basic knowledge of veterinary surgery include inflammation, wound repair, factors affecting on the wound healing, general principle of wound management, cause of fracture, symptom of fracture, healing mechanism of fracture, treatment of fracture, surgical disease and treatment of locomotor system.	Theory	
389	3	전필	2182	수의외과학1	VETERINARY SURGERY I	5.0	5.0	수의학과	VETERINARY MEDICINE	Tue04-06 1030-1200(수306), Wed09-12 1300-1500(수306), Thu04-06 1030-1200(수410)	정순욱, 신일교수님, 정다정, 김휘을, 윤현영	English	The lecture is basic knowledge of veterinary surgery include inflammation, wound repair, factors affecting on the wound healing, general principle of wound management, cause of fracture, symptom of fracture, healing mechanism of fracture, treatment of fracture, surgical disease and treatment of locomotor system.	Theory	
390	3	전필	2745	수의외과학1실습	VETERINARY SURGERY 1 PRACTICE	2.0	4.0	수의학과	VETERINARY MEDICINE	Thu17-21 1700-2030(수103)	정순욱, 이아진, 한현장, 김휘을	English	The lecture is basic practice of operation include surgical instrument, surgical material, tissue separation and hemostasis, suture, anesthesia and patient monitoring, resuscitation, and wound management.	Experiment + Practice	
391	3	전필	2746	수의외과학1실습	VETERINARY SURGERY 1 PRACTICE	2.0	4.0	수의학과	VETERINARY MEDICINE	Fri17-21 1700-2030(수103)	정순욱, 이아진, 한현장, 김휘을	English	The lecture is basic practice of operation include surgical instrument, surgical material, tissue separation and hemostasis, suture, anesthesia and patient monitoring, resuscitation, and wound management.	Experiment + Practice	
392	3	전필	2747	수의외과학1실습	VETERINARY SURGERY 1 PRACTICE	2.0	4.0	수의학과	VETERINARY MEDICINE	Fri01-08 0900-1300(수103)	정순욱, 이아진, 한현장, 김휘을	English	The lecture is basic practice of operation include surgical instrument, surgical material, tissue separation and hemostasis, suture, anesthesia and patient monitoring, resuscitation, and wound management.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
393	3	전필	2748	수의외과학1실습	VETERINARY SURGERY 1 PRACTICE	2.0	4.0	수의학과	VETERINARY MEDICINE	Thu09-16 1300-1700(수103)	정순옥, 이아진, 한현정, 김휘율	English	The lecture is basic practice of operation include surgical instrument, surgical material, tissue separation and hemostasis, suture, anesthesia and patient monitoring, resuscitation, and wound management.	Experiment + Practice	
394	3	전필	2749	수의외과학1실습	VETERINARY SURGERY 1 PRACTICE	2.0	4.0	수의학과	VETERINARY MEDICINE	Fri09-16 1300-1700(수103)	정순옥, 이아진, 한현정, 김휘율	English	The lecture is basic practice of operation include surgical instrument, surgical material, tissue separation and hemostasis, suture, anesthesia and patient monitoring, resuscitation, and wound management.	Experiment + Practice	
395	1	전필	2357	수의해부학1	VETERINARY ANATOMY 1	3.0	3.0	수의학과	VETERINARY MEDICINE	Mon01-03 0900-1030(수307), Thu01-03 0900-1030(동710-3)	남상섭, 이중환	English	Macroscopic structures of animal body as a basic study of veterinary medicine will be instructed. The structure of carnivores, horses, ruminants, pigs, and avians will be included as a method of systemic anatomy.	Theory	
396	1	전필	2358	수의해부학1	VETERINARY ANATOMY 1	3.0	3.0	수의학과	VETERINARY MEDICINE	Mon04-06(수307), Thu05-07(동710-3)	남상섭, 이중환	English	Macroscopic structures of animal body as a basic study of veterinary medicine will be instructed. The structure of carnivores, horses, ruminants, pigs, and avians will be included as a method of systemic anatomy.	Theory	
397	1	전필	2204	수의해부학1실습	VETERINARY ANATOMY PRACTICE 1	2.0	4.0	수의학과	VETERINARY MEDICINE	Fri09-16 1300-1700(수106)	김민수, 남상섭	English	After studying the osteology, muscles, nerves, blood vessels will be dissected according to the regional anatomical method to understand the precise morphology of organic body system.	Experiment + Practice	
398	1	전필	2205	수의해부학1실습	VETERINARY ANATOMY PRACTICE 1	2.0	4.0	수의학과	VETERINARY MEDICINE	Fri09-16 1300-1700(수107)	김민수, 남상섭	English	After studying the osteology, muscles, nerves, blood vessels will be dissected according to the regional anatomical method to understand the precise morphology of organic body system.	Experiment + Practice	
399	1	전필	2206	수의해부학1실습	VETERINARY ANATOMY PRACTICE 1	2.0	4.0	수의학과	VETERINARY MEDICINE	Thu09-16 1300-1700(수106)	김민수, 남상섭	English	After studying the osteology, muscles, nerves, blood vessels will be dissected according to the regional anatomical method to understand the precise morphology of organic body system.	Experiment + Practice	
400	1	전필	2207	수의해부학1실습	VETERINARY ANATOMY PRACTICE 1	2.0	4.0	수의학과	VETERINARY MEDICINE	Thu09-16 1300-1700(수107)	김민수, 남상섭	English	After studying the osteology, muscles, nerves, blood vessels will be dissected according to the regional anatomical method to understand the precise morphology of organic body system.	Experiment + Practice	
401	4	전필	2330	야생동물의학	WILD-LIFE ANIMAL MEDICINE	2.0	2.0	수의학과	VETERINARY MEDICINE	Mon13-16 1500-1700(수306)	도선희, 김보숙	English	Practical knowledge and techniques related to effective management, including diagnosis, prevention, and treatment of diseases in wild-life animals, under the consideration of carrying pathogenic germs and spreading infectious diseases to domestic animals and human.	Theory	
402	4	전필	2331	야생동물의학	WILD-LIFE ANIMAL MEDICINE	2.0	2.0	수의학과	VETERINARY MEDICINE	Mon17-19 1700-1900(수306)	도선희, 김보숙	English	Practical knowledge and techniques related to effective management, including diagnosis, prevention, and treatment of diseases in wild-life animals, under the consideration of carrying pathogenic germs and spreading infectious diseases to domestic animals and human.	Theory	
403	3	전선	4804	실내악1	CHAMBER MUSIC 1	1.0	2.0	음악교육과	MUSIC EDUCATION	Mon17-19 1700-1900 (교수연구실-윤성원)	윤성원	English	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.	Experiment + Practice	
404	2	전선	4819	창의적 피아노교수법	CREATIVE PIANO PEDAGOGY	2.0	2.0	음악교육과	MUSIC EDUCATION	Tue13-16 1500-1700(사311)	김재미	English	A study of piano pedagogy from kindergarten level through high school.	Theory+ Experiment	
405	4	전선	4017	관현악법	ORCHESTRATION	2.0	2.0	음악교육과	MUSIC EDUCATION	Fri07-10 1200-1400(사311)	신혁진	English	Basic knowledge of the wind, string, and percussion instruments and arrangement techniques. Arranging the piece for the piano and the orchestra by taking advantage of the characteristic of each musical instrument.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
406	2	전필	2568	음악교육론	FOUNDATIONS OF MUSIC EDUCATION	3.0	3.0	음악교육과	MUSIC EDUCATION	Tue01-04 0900-1100(사312), Thu11-12 1400-1500(사312)	최은식	English	Intensive study of basic subjects of music education. Topics covered are philosophy, curriculum, teaching methods, and trends in music education.	Theory	
407	4	전필	2604	음악논리및논술	CRITICAL WRITING IN MUSIC	3.0	3.0	음악교육과	MUSIC EDUCATION	Mon13-16 1500-1700(사312), Wed13-14 1500-1600(사312)	최은식	English	This course is designed to examine basic topics and problems of evaluation in music education. Strategies for assuring validity, reliability, and objectivity of music testing is also covered.	Theory	
408	3	전선	4116	멀티미디어음악교육론	MULTIMEDIA-ASSISTED MUSIC EDUCATION	2.0	2.0	음악교육과	MUSIC EDUCATION	Thu13-16 1500-1700(사301)	최은식	English	Introduction to multimedia technology that can be integrated in general music classes and strategies for development and authoring of multimedia music titles.	Theory+ Experiment	
409	1	전선	4801	통합이론1음악개론	COMPREHENSIVE MUSIC THEORY 1 (INTRODUCTION TO MUSIC)	3.0	3.0	음악교육과	MUSIC EDUCATION	Tue11-16 1400-1700(사312)	김정욱	English	Study of music theories in a comprehensive manner, centered on fundamentals.	Theory+ Experiment	
410	1	전선	4802	통합이론1음악개론	COMPREHENSIVE MUSIC THEORY 1 (INTRODUCTION TO MUSIC)	3.0	3.0	음악교육과	MUSIC EDUCATION	Wed01-06 0900-1200(사312)	유도원	English	Study of music theories in a comprehensive manner, centered on fundamentals.	Theory+ Experiment	
411	2	전필	2602	통합이론3화성법2	COMPREHENSIVE MUSIC THEORY 3 - HARMONY 2	3.0	3.0	음악교육과	MUSIC EDUCATION	Fri11-16 1400-1700(사311)	장춘희	English	Study of music theories in a comprehensive manner, centered on advanced harmony.	Theory+ Experiment	
412	2	전필	2603	통합이론3화성법2	COMPREHENSIVE MUSIC THEORY 3 - HARMONY 2	3.0	3.0	음악교육과	MUSIC EDUCATION	Mon03-08 1000-1300(사312)	김수혜	English	Study of music theories in a comprehensive manner, centered on advanced harmony.	Theory+ Experiment	
413	3	전선	4811	통합이론5대위법2	COMPREHENSIVE MUSIC THEORY 5 - COUNTERPOINT2	3.0	3.0	음악교육과	MUSIC EDUCATION	Thu05-10 1100-1400(사312)	이나영	English	Study of music theories in a comprehensive manner, centered on 18th century counterpoint.	Theory+ Experiment	
414	3	전선	4810	통합이론5대위법2	COMPREHENSIVE MUSIC THEORY 5 - COUNTERPOINT2	3.0	3.0	음악교육과	MUSIC EDUCATION	Fri01-06 0900-1200(사311)	신혁진	English	Study of music theories in a comprehensive manner, centered on 18th century counterpoint.	Theory+ Experiment	
415	1	전선	4800	전공세미나	SEMINAR	1.0	2.0	음악교육과	MUSIC EDUCATION	Wed09-12 1300-1500(사312)	윤성원	English	A workshop participated by individuals of different major instruments. Presentations on individual project are required.	Experiment + Practice	
416	1	전필	2608	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900(레슨실A)	김윤지	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
417	1	전필	2609	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900(레슨실B)	이윤숙	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
418	1	전필	2610	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900(레슨실B)	이윤숙	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
419	1	전필	2611	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900(레슨실A)	이윤숙	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
420	1	전필	2613	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
421	1	전필	2614	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
422	1	전필	2615	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
423	1	전필	2616	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900 (교수연구실-이민정)	이민정	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
424	1	전필	2617	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900 (교수연구실-이민정)	이민정	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
425	1	전필	2618	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900(레슨실E)	노지영	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
426	1	전필	2619	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900(작곡실)	정정희	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
427	1	전필	2620	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900(작곡실)	유순영	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
428	1	전필	2621	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
429	1	전필	2622	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
430	1	전필	2623	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900(레슨실E)	신혁진	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	

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431	1	전필	2624	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900(작곡실)	장춘희	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
432	1	전필	2625	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900 (교수연구실-윤성원)	윤성원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
433	1	전필	2626	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900 (교수연구실-윤성원)	윤성원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
434	1	전필	2627	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900(레슨실C)	임지희	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
435	1	전필	2628	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900(레슨실E)	이지은	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
436	1	전필	2630	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed19 1815-1900(레슨실C)	손한요	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
437	1	전필	2631	전공실기1	APPLIED MUSIC 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900(레슨실B)	백수현	English	The major field of study is divided into vocal music, piano, string instruments, and wind instrument composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
438	2	전필	2573	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue19 1815-1900(레슨실A)	이윤숙	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
439	2	전필	2576	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue19 1815-1900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
440	2	전필	2577	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
441	2	전필	2578	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900 (교수연구실-이민정)	이민정	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
442	2	전필	2579	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue19 1815-1900(레슨실C)	한성민	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
443	2	전필	2580	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue19 1815-1900(레슨실D)	신상진	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
444	2	전필	2581	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900(레슨실E)	정미현	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
445	2	전필	2582	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
446	2	전필	2583	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue19 1815-1900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
447	2	전필	2584	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
448	2	전필	2585	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900 (타악기실)	유도원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
449	2	전필	2586	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900 (교수연구실-윤성원)	윤성원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
450	2	전필	2588	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900(레슨실D)	이지윤	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
451	2	전필	2589	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900(타악기실)	오주은	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
452	2	전필	2593	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900(레슨실C)	김형찬	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
453	2	전필	2596	전공실기3	APPLIED MUSIC 3	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
454	3	전필	2547	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Fri00 0800-0900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
455	3	전필	2548	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue19 1815-1900 (교수연구실-이민정)	이민정	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
456	3	전필	2549	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900 (교수연구실-이민정)	이민정	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
457	3	전필	2550	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu19 1815-1900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
458	3	전필	2553	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed19 1815-1900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
459	3	전필	2554	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
460	3	전필	2555	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue19 1815-1900(타악기실)	장춘희	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
461	3	전필	2556	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed19 1815-1900 (교수연구실-이민정)	이민정	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
462	3	전필	2557	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Fri00 0800-0900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
463	3	전필	2558	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Fri19 1815-1900 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
464	3	전필	2559	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed00 0800-0900(레슨실A)	김수혜	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
465	3	전필	2560	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800 (교수연구실-윤성원)	윤성원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
466	3	전필	2561	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed19 1815-1900 (교수연구실-윤성원)	윤성원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
467	3	전필	2563	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800(작곡실)	오주은	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
468	3	전필	2564	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Fri00 0800-0900(레슨실A)	백수현	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
469	3	전필	2565	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Fri00 0800-0900(레슨실B)	김형찬	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
470	3	전필	2567	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800 (교수연구실-이민정)	이민정	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
471	3	전필	2545	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed19 1815-1900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
472	3	전필	2546	전공실기5	APPLIED MUSIC 5	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
473	4	전필	2521	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900 (교수연구실-유승공)	유승공	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
474	4	전필	2523	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900(레슨실A)	김윤지	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
475	4	전필	2524	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed19 1815-1900(레슨실A)	이윤숙	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
476	4	전필	2528	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu19 1815-1900 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
477	4	전필	2529	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800 (교수연구실-김재미)	김재미	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
478	4	전필	2530	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Mon00 0800-0900(타악기실)	이지현	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
479	4	전필	2533	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu17-18 1700-1800 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
480	4	전필	2534	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu01-02 0900-1000 (교수연구실-김진수)	김진수	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
481	4	전필	2535	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Tue00 0800-0900(타악기실)	신혁진	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
482	4	전필	2536	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900 (교수연구실-윤성원)	윤성원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
483	4	전필	2537	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu19 1815-1900 (교수연구실-윤성원)	윤성원	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
484	4	전필	2538	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Wed19 1815-1900(작곡실)	오주은	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	
485	4	전필	2539	전공실기7	APPLIED MUSIC 7	2.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900(레슨실A)	손한요	English	The major field of study is divided into vocal music, piano, string instruments, and wind instruments, composition, and aims at having the students develop practical techniques in a curriculum suiting the level of each school year.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
486	1	전선	4019	시창청음1	SIGHT SINGING & EAR TRAINING 1	1.0	2.0	음악교육과	MUSIC EDUCATION	Thu13-16 1500-1700(사311)	김정욱	English	Developing ability to read and listen to music by cultivating understanding of rhythm, harmony, interval, and melody by stages, in order to produce sound accurately through score-reading, and to write music through listening.	Theory+ Experiment	
487	1	전선	4020	시창청음1	SIGHT SINGING & EAR TRAINING 1	1.0	2.0	음악교육과	MUSIC EDUCATION	Thu13-16 1500-1700(사312)	김윤진	English	Developing ability to read and listen to music by cultivating understanding of rhythm, harmony, interval, and melody by stages, in order to produce sound accurately through score-reading, and to write music through listening.	Theory+ Experiment	
488	1	전선	4115	시창청음1	SIGHT SINGING & EAR TRAINING 1	1.0	2.0	음악교육과	MUSIC EDUCATION	Mon13-16 1500-1700(사311)	김수혜	English	Developing ability to read and listen to music by cultivating understanding of rhythm, harmony, interval, and melody by stages, in order to produce sound accurately through score-reading, and to write music through listening.	Theory+ Experiment	
489	1	전선	4815	부전공실기1	SECONDARY PERFORMANCE 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon17-18 1700-1800(사311)	김윤지	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
490	1	전선	4816	부전공실기1	SECONDARY PERFORMANCE 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Mon19 1815-1900(사311)	노지영	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
491	1	전선	4817	부전공실기1	SECONDARY PERFORMANCE 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800(레슨실C)	한성민	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
492	1	전선	4818	부전공실기1	SECONDARY PERFORMANCE 1	1.0	1.0	음악교육과	MUSIC EDUCATION	Fri19 1815-1900 (교수연구실-윤성원)	임지희	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
493	2	전선	4117	부전공실기3	SECONDARY PERFORMANCE 3	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed15-16 1600-1700(작곡실)	이윤숙	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
494	2	전선	4118	부전공실기3	SECONDARY PERFORMANCE 3	1.0	1.0	음악교육과	MUSIC EDUCATION	Thu17-18 1700-1800 (교수연구실-이민정)	이민정	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
495	2	전선	4119	부전공실기3	SECONDARY PERFORMANCE 3	1.0	1.0	음악교육과	MUSIC EDUCATION	Fri00 0800-0900(사311)	정정희	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
496	2	전선	4120	부전공실기3	SECONDARY PERFORMANCE 3	1.0	1.0	음악교육과	MUSIC EDUCATION	Thu00 0800-0900(사311)	이지윤	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
497	2	전선	4121	부전공실기3	SECONDARY PERFORMANCE 3	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed15-16 1600-1700(레슨실C)	유순영	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
498	3	전선	4015	부전공실기5	SECONDARY PERFORMANCE 5	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed15-16 1600-1700(레슨실E)	이지현	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
499	3	전선	4016	부전공실기5	SECONDARY PERFORMANCE 5	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800(레슨실D)	백수현	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
500	4	전선	4123	부전공실기7	SECONDARY PERFORMANCE 7	1.0	1.0	음악교육과	MUSIC EDUCATION	Wed17-18 1700-1800(레슨실E)	노희재	English	A wide study of other fields different from major subjects, such as piano, vocal music, violin, and composition.	Experiment + Practice	
501	1	전선	4813	합창합주1	CHORUS & ORCHESTRA1	2.0	2.0	음악교육과	MUSIC EDUCATION	Mon09-12 1300-1500(사311)	김수혜	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
502	1	전선	4814	합창합주1	CHORUS & ORCHESTRA1	2.0	2.0	음악교육과	MUSIC EDUCATION	Tue17-19 1700-1900(사311)	박인욱	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	
503	2	전선	4821	합창합주3	CHORUS & ORCHESTRA3	2.0	2.0	음악교육과	MUSIC EDUCATION	Mon09-12 1300-1500(사311)	김수혜	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	
504	2	전선	4822	합창합주3	CHORUS & ORCHESTRA3	2.0	2.0	음악교육과	MUSIC EDUCATION	Tue17-19 1700-1900(사311)	박인욱	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	
505	3	전필	2898	합창합주5	CHORUS & ORCHESTRA5	2.0	2.0	음악교육과	MUSIC EDUCATION	Mon09-12 1300-1500(사311)	김수혜	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	
506	3	전필	2899	합창합주5	CHORUS & ORCHESTRA5	2.0	2.0	음악교육과	MUSIC EDUCATION	Tue17-19 1700-1900(사311)	박인욱	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	
507	4	전선	4824	합창합주7	CHORUS & ORCHESTRA17	2.0	2.0	음악교육과	MUSIC EDUCATION	Mon09-12 1300-1500(사311)	김수혜	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	
508	4	전선	4825	합창합주7	CHORUS & ORCHESTRA17	2.0	2.0	음악교육과	MUSIC EDUCATION	Tue17-19 1700-1900(사311)	박인욱	English	Cultivation of cooperative and harmonious spirit and improving ability to recapitulate music as choir or orchestra.	Experiment + Practice	
509		기교	1201	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon01-03 0900-1030(산학201), Wed04-06 1030-1200(산학201)	맥키	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
510		기교	1202	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon04-06 1030-1200(산학201), Wed01-03 0900-1030(산학201)	맥키	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
511		기교	1203	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon07-09 1200-1330(산학201), Wed10-12 1330-1500(산학201)	랜든	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
512		기교	1204	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon10-12 1330-1500(산학201), Wed07-09 1200-1330(산학201)	맥키	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
513		기교	1205	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue01-03 0900-1030(산학201), Thu04-06 1030-1200(산학201)	맥키	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
514		기교	1206	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue04-06 1030-1200(산학201), Thu01-03 0900-1030(산학201)	맥키	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
515		기교	1207	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue07-09 1200-1330(산학201), Thu10-12 1330-1500(산학201)	맥키	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
516		기교	1208	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue10-12 1330-1500(산학201), Thu07-09 1200-1330(산학201)	랜든	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
517		기교	1209	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon01-03 0900-1030(산학202), Wed04-06 1030-1200(산학202)	조지	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
518		기교	1210	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon04-06 1030-1200(산학202), Wed01-03 0900-1030(산학202)	조지	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
519		기교	1211	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon07-09 1200-1330(산학202), Wed10-12 1330-1500(산학202)	조지	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
520		기교	1212	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon10-12 1330-1500(산학202), Wed07-09 1200-1330(산학202)	랜트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
521		기교	1213	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue01-03 0900-1030(산학202), Thu04-06 1030-1200(산학202)	조지	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
522		기교	1214	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue04-06 1030-1200(산학202), Thu01-03 0900-1030(산학202)	조지	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
523		기교	1215	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue07-09 1200-1330(산학202), Thu10-12 1330-1500(산학202)	랜트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
524		기교	1216	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue10-12 1330-1500(산학202), Thu07-09 1200-1330(산학202)	조지	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
525		기교	1217	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon01-03 0900-1030(산학203), Wed04-06 1030-1200(산학203)	베네트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
526		기교	1218	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon04-06 1030-1200(산학203), Wed01-03 0900-1030(산학203)	베네트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
527		기교	1219	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon07-09 1200-1330(산학203), Wed10-12 1330-1500(산학203)	조이	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
528		기교	1220	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon10-12 1330-1500(산학203), Wed07-09 1200-1330(산학203)	베네트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
529		기교	1221	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue01-03 0900-1030(산학203), Thu04-06 1030-1200(산학203)	베네트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
530		기교	1222	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue04-06 1030-1200(산학203), Thu01-03 0900-1030(산학203)	베네트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
531		기교	1223	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue07-09 1200-1330(산학203), Thu10-12 1330-1500(산학203)	베네트	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
532		기교	1224	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue10-12 1330-1500(산학203), Thu07-09 1200-1330(산학203)	조이	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
533		기교	1225	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon01-03 0900-1030(산학204), Wed04-06 1030-1200(산학204)	쉐인	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
534		기교	1226	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon04-06 1030-1200(산학204), Wed01-03 0900-1030(산학204)	쉐인	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
535		기교	1227	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon07-09 1200-1330(산학204), Wed10-12 1330-1500(산학204)	쉐인	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
536		기교	1228	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon10-12 1330-1500(산학204), Wed07-09 1200-1330(산학204)	션패트릭	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
537		기교	1229	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue01-03 0900-1030(산학204), Thu04-06 1030-1200(산학204)	션패트릭	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
538		기교	1230	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue04-06 1030-1200(산학204), Thu01-03 0900-1030(산학204)	쉐인	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
539		기교	1231	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue07-09 1200-1330(산학204), Thu10-12 1330-1500(산학204)	쉐인	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
540		기교	1232	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue10-12 1330-1500(산학204), Thu07-09 1200-1330(산학204)	션패트릭	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
541		기교	1233	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon01-03 0900-1030(산학206), Wed04-06 1030-1200(산학206)	스토츠	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
542		기교	1234	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon04-06 1030-1200(산학206), Wed01-03 0900-1030(산학206)	스토츠	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
543		기교	1235	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon07-09 1200-1330(산학206), Wed10-12 1330-1500(산학206)	스토츠	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
544		기교	1236	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon10-12 1330-1500(산학206), Wed07-09 1200-1330(산학206)	조이	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
545		기교	1237	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue01-03 0900-1030(산학206), Thu04-06 1030-1200(산학206)	웨인	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
546		기교	1238	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue04-06 1030-1200(산학206), Thu01-03 0900-1030(산학206)	안드레아	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
547		기교	1239	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue07-09 1200-1330(산학206), Thu10-12 1330-1500(산학206)	스토츠	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
548		기교	1240	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue10-12 1330-1500(산학206), Thu07-09 1200-1330(산학206)	스토츠	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
549		기교	1241	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon01-03 0900-1030(산학210), Wed04-06 1030-1200(산학210)	제이슨유	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
550		기교	1242	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon04-06 1030-1200(산학210), Wed01-03 0900-1030(산학210)	안드레아	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
551		기교	1243	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon07-09 1200-1330(산학210), Wed10-12 1330-1500(산학210)	안드레아	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
552		기교	1244	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon10-12 1330-1500(산학210), Wed07-09 1200-1330(산학210)	안드레아	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
553		기교	1245	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon13-15 1500-1630(산학210), Wed13-15 1500-1630(산학210)	스토츠	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
554		기교	1246	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue01-03 0900-1030(산학210), Thu04-06 1030-1200(산학210)	제이슨유	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
555		기교	1247	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue04-06 1030-1200(산학210), Thu01-03 0900-1030(산학210)	제이슨유	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
556		기교	1248	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue07-09 1200-1330(산학210), Thu10-12 1330-1500(산학210)	안드레아	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
557		기교	1249	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue10-12 1330-1500(산학210), Thu07-09 1200-1330(산학210)	안드레아	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
558		기교	1250	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue13-15 1500-1630(산학210), Thu13-15 1500-1630(산학210)	션패트릭	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
559		기교	1251	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon10-12 1330-1500(산학211), Wed07-09 1200-1330(산학211)	쉐인	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
560		기교	1252	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Mon13-15 1500-1630(산학211), Wed13-15 1500-1630(산학211)	제이슨유	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
561		기교	1253	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue07-09 1200-1330(산학211), Thu10-12 1330-1500(산학211)	존	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
562		기교	1254	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue10-12 1330-1500(산학211), Thu07-09 1200-1330(산학211)	제이슨유	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
563		기교	1255	대학영어1	ACADEMIC ENGLISH 1	3.0	3.0	전체	ALL MAJORS	Tue13-15 1500-1630(산학211), Thu13-15 1500-1630(산학211)	조이	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
564		기교	1256	대학영어2	ACADEMIC ENGLISH 2	3.0	3.0	전체	ALL MAJORS	Mon01-03 0900-1030(산학211), Wed04-06 1030-1200(산학211)	존	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
565		기교	1257	대학영어2	ACADEMIC ENGLISH 2	3.0	3.0	전체	ALL MAJORS	Mon04-06 1030-1200(산학211), Wed01-03 0900-1030(산학211)	존	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
566		기교	1258	대학영어2	ACADEMIC ENGLISH 2	3.0	3.0	전체	ALL MAJORS	Mon07-09 1200-1330(산학211), Wed10-12 1330-1500(산학211)	제이슨유	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
567		기교	1259	대학영어2	ACADEMIC ENGLISH 2	3.0	3.0	전체	ALL MAJORS	Tue01-03 0900-1030(산학211), Thu04-06 1030-1200(산학211)	존	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
568		기교	1260	대학영어2	ACADEMIC ENGLISH 2	3.0	3.0	전체	ALL MAJORS	Tue04-06 1030-1200(산학211), Thu01-03 0900-1030(산학211)	스토츠	English	This course provides a practical language training program of advanced level presentation/writing skills in English.	Theory	
569	1	지교	0487	경제학원론1	PRINCIPLES OF ECONOMICS 1	3.0	3.0	상경대학, 중국통상·비즈니스	COMMERCE & ECONOMIC, CHINESE COMMERCE AND BUSINESS	Mon13-18 1500-1800(산학207)	김육	Chinese	Introduction to economics,with a focus on how economists observe and explain economic problems. Outlines the basic unifying themes of economics : scarcity and choice. Defines key forms & ideas of market, demand and supply.	Theory	Undergraduate foreign degree and exchange students only
570	4	전필	2502	실용일본어회화	PRACTICAL JAPANESE CONVERSATION	3.0	3.0	일어교육과	JAPANESE LANGUAGE EDUCATION	Thu13-18 1500-1800(사225)		Japanese	This course provides students with authentic communication skills to be able to apply in real life.	Theory	
571	2	전선	3808	일본어회화1	JAPANESE CONVERSATION 1	3.0	3.0	일어교육과	JAPANESE LANGUAGE EDUCATION	Mon09-12 1300-1500(사320), Wed07-08 1200-1300(사320)		Japanese	This course provides students with aural-oral drills in standard modern Japanese, listening comprehension exercises and dictations.	Theory	
572	1	전선	3813	일본어강독2	READING JAPANESE 2	3.0	3.0	일어교육과	JAPANESE LANGUAGE EDUCATION	Mon04-06 1030-1200(사320), Wed04-06 1030-1200(사320)		Japanese	(Requisite for 'Reading Japanese 1') This course emphasizes the articulation and active communication using standard modern Japanese language.	Theory	

No.	Year	Category	Course No.	Course Name (Korean)	Course Name (English)	Credits	Hours	College/Department (Korean)	College/Department (English)	Time/Classroom	Instructor	Language	Course Description	Course Type	Remarks
573	1	전선	3807	일본어강독2	READING JAPANESE 2	3.0	3.0	일어교육과	JAPANESE LANGUAGE EDUCATION	Tue04-06 1030-1200(사217), Thu04-06 1030-1200(사217)		Japanese	(Requisite for 'Reading Japanese 1') This course emphasizes the articulation and active communication using standard modern Japanese language.	Theory	