



Universitatea Babeș-Bolyai anunță selecția pentru 5 burse la Dongguk University, Coreea de Sud

- **5 burse** de 10 luni (2 martie -20 decembrie 2022) la **Dongguk University, Seoul**

Programe

- Nivel licență (anii II, III, IV) și master, cursuri în limba engleză
- Toate domeniile de studiu

Criterii de selecție

- Rezultate academice excepționale (numai studenți integraliști). Media minimă acceptată: 8.50.
- Pentru masteranzi, se ia în considerare media anilor de studiu, nivel licență.)
- Cunoașterea avansată a limbii engleze
- Selecția se va face pe baza documentelor din dosarul de aplicație și a unui interviu în limba engleză, organizat online.

Condițiile bursei

- Studenții selectați vor primi o alocație lunară (200.000 KRW = aprox. 180 USD/lună), cazare gratuită și sunt scutiți de plata taxelor de școlarizare
- Bursa **nu** acoperă următoarele cheltuieli: drumul, asigurarea de sănătate și costul vizei

Documente necesare pentru a aplica

1. Foaia matricolă în format electronic (inclusiv ultimul semestru încheiat. Masteranzii vor depune foaia matricolă–nivel licență + foaia matricolă–masterat pentru toate semestrele încheiate, dacă este cazul)
Notă: foaia matricolă va trebui să fie tradusă în limba engleză
2. CV în limba engleză, care să menționeze datele de contact ale unui cadru didactic din UBB care poate fi contactat pentru a da detalii despre candidat
3. Scrisoare de intenție în limba engleză
4. Scrisoare de recomandare din partea unui cadru didactic (opțional)

Vă rugăm să trimiteți dosarul sub forma **unui singur PDF**.

Calendar

- 26 noiembrie 2021, trimiterea dosarelor pe adresa ana.caluseriu@ubbcluj.ro
- 29 noiembrie 2021, ora 10 – interviul în limba engleză. Candidații vor primi un link pentru interviul online.

Contact

Persoană de contact: Ana-Luisa Călușeriu
ana.caluseriu@ubbcluj.ro



Informații suplimentare

1. Cheltuieli lunare estimate pentru un student bursier: 500.000 KRW, din care primește lunar 200.000 KRW de la Universitatea Dongguk. Studenții trebuie să acopere diferența (300.000 KRW = aprox. 270 USD) din surse proprii. Suma estimată acoperă necesarul pentru mâncare, transport urban, cărți. Suma necesară poate varia în funcție de stilul de viață al studenților.
2. În semestrul de toamnă 2021, cursurile de la Universitatea Dongguk au avut loc în regim online și blended learning (unele cursuri au avut întâlniri periodice față în față). Universitatea Dongguk anunță că semestrul de primăvară 2022 se va desfășura, cel mai probabil, în mod similar (încă se așteaptă confirmarea din partea universității).
3. Toți călătorii care intră în Coreea de Sud trebuie să stea în carantină obligatorie timp de 2 săptămâni, indiferent de naționalitate și chiar dacă testul COVID-19 făcut gratuit de autoritățile coreene la intrarea în țară va fi negativ. Condițiile se aplică atât pentru persoanele vaccinate cât și cele nevaccinate.
4. Semestrul de primăvară 2022 va începe la Universitatea Dongguk în 2 martie. Din cauza carantinei obligatorii, Universitatea Dongguk le recomandă bursierilor să ajungă în Coreea cu cel puțin două săptămâni mai devreme.
5. Privitor la pandemie, climatul din Coreea de Sud a fost până acum unul de siguranță, cu o rată scăzută de infectare, ținută sub control prin testare masivă și anchete epidemiologice riguroase.
6. Studenții interesați de aceste burse pot adresa întrebări și uneia dintre masterandele care se află acum la Universitatea Dongguk, cu acest tip de bursă: Ana Ungureanu, ana_ungureanu11@yahoo.com.
7. Pagina principală a Universității Dongguk: <http://www.dongguk.edu>

Dongguk University Exchange Program Factsheet



A. GENERAL INFORMATION			
Name of Institution	Dongguk University		
Country	South Korea		
Incoming and Summer/Winter School	Name of Unit	International Relations	
	Name of Coordinator	Jongwon Moon, Hee Kyoung Jong	
	Address	30, 1 gil, Pildong-ro, Jung-gu, Seoul, 100-715, Korea	
	Telephone	(+82)2-2260-3464 (+82)2-2260-1781	
	Fax	(+82)2-2260-3878	
	Email	incoming@dongguk.edu (for applicants) 20200167@dongguk.edu (for partner university)	
Outgoing and Summer/Winter School	Name of Unit	International Relations	
	Name of Coordinator	Jongwon Moon	
	Address	30, 1 gil, Pildong-ro, Jung-gu, Seoul, 100-715, Korea	
	Telephone	(+82)2-2260-3464	
	Fax	(+82)2-2260-3878	
	Email	outbound1@dongguk.edu (for applicants) 20200167@dongguk.edu (for partner universities)	
Relevant Website	Institute	http://www.dongguk.edu/mbs/en/index.jsp	
	Exchange program	http://www.dongguk.edu/mbs/en/subview.jsp?id=en_0406010200	
General background	Dongguk University Seoul Campus Founded in 1906 13 Colleges 66 Undergraduate Programs 136 Graduate Programs		
Type of Institution	Private / Comprehensive University		
Location and Campus Map	http://www.dongguk.edu/mbs/en/subview.jsp?id=en_010600000000		
Campus	Main Campus: Seoul Campus Bio-Medi Campus: Ilsan Campus (College of Life Science and Biotechnology)		
Student Enrollment (As of 2021 Spring)	Total no. of students	Undergraduate: 13,868 Graduate: 3,595	
	No. of international/exchange students	Around 1,503 / 87	
B. ACADEMIC INFORMATION			
Academic Calendar (Subject to change) (yyyy-dd-mm)	Information	2022-Spring	2022-Fall
	Residence Hall Check In	TBA (one week before the beginning of the semester)	TBA (one week before the beginning of the semester)
	Residence Hall Check Out	TBA	TBA
	Expected Orientation Date	TBA (one week before the beginning of the semester)	TBA (one week before the beginning of the semester)
	Semester starts	02-03-22	29-08-22
	Semester ends (Vacation starts) *The semester could end later than the above date if a professor wanted to make up for a missing class.	TBA, Mid-June	TBA, Mid-December
Language of Instruction	English and Korean		

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Course Information	Please see sheet 3,4 ※ Please note that the courses on the list are taught in English, but opened in last semesters. Since the fixed course list opened in coming semester is usually released a month before the semester starts, student must get approval with the previous course list first. ※ If student needs course description, please have them contact us via email(incoming@dongguk.edu) with course code and title. ※ Film courses are only open to the students from following major: Film, Cinema, Fine arts, Multimedia, Audiovisual, Communications		
Study Duration	One semester / One academic year (Students can choose)		
Study Load for exchange students per Semester			No. of credits / Courses per semester
	Minimum study load		9 credits / 3 course
	Maximum study load		18 credits / 6 courses
	※ Kindly guide your students with study load on your standard ※ In Dongguk University, the normal load for graduate students are 6-9 credits and undergraduate students are 15-18 credits ※ Students participating Intensive Korean Language Program are advised to take less than 12 credits for the regular course work		
C. APPLICATION			
English Proficiency Requirements	Students are not required to provide proof of English Test Result, but they have to have English skills to take courses taught in English		
Online Application	http://diss.dongguk.edu/applyex/apply.html ※ Application is only acceptable during the following on-line application period.		
Required documents to be uploaded	Official academic transcript A copy of passport Passport-sized photo Insurance Copy(Optional)		
Nomination/Application Deadline	Semester	Nomination	On-line Application
	2022 Spring Semester	15-Nov	30-Nov
	2022 Fall Semester	15-May	31-May
	The "Nomination Form" should be send to the international office of Dongguk University by the coordinator of the partner university via Google Forms only ▶ Google Forms ; https://forms.gle/bygfgqGHhnxTuKB9		
The admission letter will be sent to the international office of the applicants' home university by the end of January for the Spring semester(the end of June for the Fall semester).			
D. ACCOMODATION			
Type of accommodation	On-campus Dormitory - Chungmu Residence Hall, Goyang Residence Hall(Only for the college of Life Science and Biotechnology students who are going to study in Ilsan campus) Students can choose to live On-campus Dormitory. Also, they can choose to find their accommodation(self-prepared place).		
Estimated Accommodation Fee per semester	varied by room type		
Application	Students can apply via online application above		
E. SCHOLARSHIP			
Global Top University Scholarship	The nominees who are from the university within QS 1~200 ranks can be granted the global top university scholarship through Dongguk University's assessing process. The QS ranking will be refered from QS ranking website(https://www.topuniversities.com/university-rankings/world-university-rankings/2021). The scholarship will be granted for only one semester, 4 months(Mar~Jun or Sep~Dec) .		
	The scholarship will be granted based on internal standards in case there are exceeded applicants than the budget allocated per year.		
	QS Ranking	The amount of scholarship	
Global Top 100 Scholarship	1 ~ 100	KRW 400,000 (per month)	
Global Top 200 Scholarship	101 ~ 200	KRW 200,000 (per month)	
F. MISCELLANEOUS			
	Books	KRW 150,000 (per month)	

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ESTIMATED Living Expenses (for reference only)	Meal	KRW 350,000 (per month)
	Local Public Transportation	KRW 40,000 (per month) (KRW1,200-KRW1,800 for one way trip by metro per times)
Fee	International Exchange Student Fee	KRW50,000/semester * Dongguk requires all exchange students to pay mandatory International Exchange Student Fee upon their arrival * For year-long students, KRW50,000 will be charged for the first semester and KRW50,000 for the second semester * This fee also applies to all international exchange students from bilateral agreement partner university
Visa Application Procedures	<p>▶ Visa for Regular Educational Program (D-2) - All international students to study in Korea should hold a student VISA (D-2), which can be applied for and obtained at the nearest Korean Embassy or Consulate in their home country.</p> <p>▶ How to apply for visa & application requirements - How to apply Applicant submits visa application documents to an embassy or consulate</p> <p>▶ Required Documents A completed Visa application - A recent passport photo (3.5 x 4.5cm, colour photo) - Passport (Original) - Certificate of Admission (Official Letter from Korea) - Certificate of the Current or Last School Attended - Documents proving Financial Affordability</p> <p>※ Students are advised to contact Korean consulate in their home country for more detailed information</p>	
Student support service	Student Buddy Program (Dongguk BUD)	
Korean Language Program	<p>* Intensive Korean Language Program The course is very intensive which is held for 10 weeks (4hours every day). The tuition fees are originally KRW1,670,000 per quarter, but we give a 30% discount for exchange students who are in intermediate and advanced level for Korean Language. * Please, kindly be noted that the discount rate will change from 90% to 30% from the 2020-2 Fall semester. * Website : https://interlangen.dongguk.edu/</p>	
Health Insurance	<p>Every exchange students who visit Korea must enroll NHIS; Korean National Health Insurance</p> <ul style="list-style-type: none"> - Various benefits are available; dental and oriental treatment, health checkups, and pregnancy and childbirth-related medical expenses. - No action is required from students, as they are automatically subscribed to health insurance. - The reduction rate is changed from 50% per year to 70% to lessen the students' financial burden(March 2021 - February 2022). - If students receive medical coverage equivalent to medical care benefits by foreign laws, from foreign insurance, or under the contract with their employer, they may apply for exemption from the subscription. 	
	<p>It is required for exchange student to register health insurance in their home country and send a copy of the policy showing his/her name before their arrival. The documents must be accompanied with an English translation if it is not in English. The insurance plan should cover the medical expenses of death occurrences or getting handicapped.</p> <p>Please be advised that insurance should cover followings:</p> <ul style="list-style-type: none"> - Accident Death/Permanent Handicap/Medical Expenses - Sickness Medical Expenses - Special Expenses (Medical Evacuation and Repatriation) 	

Exchange Student Housing Information

CHUNGMU RESIDENCE HALL (http://dormcm.dongguk.edu/?page_id=243)

Address	Chungmu Residence Hall, 4th floor, Chungmuro Media Center, 2, Toegye-ro 36 gil, Jung-gu, Seoul, 04626 , Korea
Room Type	Four bed room or Six bed room (shared bathroom & shower room)
Built-in	Desk, Bed, A/C, Small wardrobe
Payment	Semester basis (Paying 4-month fee at once)
Estimated Room Rate	around 1,300,000KRW (for four months)
Key Points	1. Located near Chungmuro Station
	2. Chungmu Residence Hall is VERY strict on its rules.
	3. If you break any of the rules of the Residence Hall, you will get penalty points. If you have more than 20 penalty points, you will be removed from the residence hall during the semester
	4. Curfew is 12 am and permission for sleep-out is required in advance
	5. Shared-laundry room. (with whole residents)
	6. Cooking is not available in Chungmu Residence Hall.
	7. Payment is to be made upon arrival in Korea
	8. Chungmu Residence Hall is only available to stay for a semester-long (plus vacation period) Students studying at Dongguk for a year-long should find different housing for her/his second semester at Dongguk

* Room rate is estimated so, it is subject to change.

2021 Spring semester courses in English

1. Make sure that there will be one more period students can add or drop the courses at the beginning of semester (based on seat availability of each courses)
2. If you would like to request description of courses, please contact incoming@dongguk.edu with course code and title
3. In terms of undergraduate courses, course code number starts with 4 is for 3rd and 4th year(or above) and 2 is for 1st and 2nd year (Ex: ACG2007 is for 1st and 2nd year student, ADV4017 is for 3rd and 4th year student)
4. Courses can be cancelled due to insufficient number of students
5. **Courses from College of Arts are only open to the students who are from those majors (Especially, course for Film and Painting are to be approved by the faculties)**

Academic Year	Semester	Undergraduate / Graduate	Language of Instruction	College	Course Code	Cr.	Course Title	Course Description	Campus	Date and Time
2021	Spring	Undergraduate	English	Dongguk Business School	ACG2007	03	Financial Accounting	This course surveys the basic accounting concepts and procedures used in the preparation of financial statements, statement analysis. It focuses on the principles and techniques of preparing financial statements including the statement of cash flows. It also covers in depth the major asset, long-term liability, and shareholders' equity accounts.	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	Dongguk Business School	ACG2007	04	Financial Accounting	This course surveys the basic accounting concepts and procedures used in the preparation of financial statements, statement analysis. It focuses on the principles and techniques of preparing financial statements including the statement of cash flows. It also covers in depth the major asset, long-term liability, and shareholders' equity accounts.	Seoul	Tue8.5-9.5/16:30-18:00,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Arts	ACS2005	02	Understanding Film Production	Students will learn all phases of pre-production, production and postproduction. Students work in small teams on focused short projects. Each team will finish a short video. Open to Film major only, Freshman (Offered spring semester.) 3 credits	Seoul	Thu6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Social Sciences	ADV4017	01	Advertising Campaign Studies	This course analyzes advertising campaign based on advertising theories from prerequisites and sheds light on strategic implications for successful advertising campaign planning.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Social Sciences	ADV4020	01	International Public Relations	Learn about public relations as a professional practice conditioned by macro-national variables such as culture, the political system, the media system, the levels of economic development and activism. Learn about how these macro factors produce variations in the ways public relations is practiced across the world.	Seoul	Tue8.5-9.5/16:30-18:00,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Engineering	ARC2015	01	Strength of Materials	This lecture introduces fundamental concepts such as stresses/strain, deformations/displacements, elasticity/inelasticity, strain energy, and load-carrying capacity. These concepts will contribute to the constitution of professional knowledge required for analysis and design of various mechanical and structural systems.	Seoul	Tue2.0-3.0/10:00-11:30,Thu3.5-4.5/11:30-13:00
2021	Spring	Undergraduate	English	College of Engineering	ARC2020	01	Structural Mechanics of Buildings I	This lecture will emphasize the principles and analytical method of the statically determinate structure, based on the practical reinforced and steel framed building. The focus will be on force and displacement, which are the major analytical issues in the nonlinear member analysis as in the case of buildings with large members. However, stress and strain, which are critical in the linear small scale structure (as in the curriculum of material mechanics	Seoul	Tue5.0-6.0/13:00-14:30,Thu5.0-6.0/13:00-14:30
2021	Spring	Undergraduate	English	College of Engineering	ARC2024	01	Architectural Thermal Environment Engineering	This subject makes students learn the efficient planning methods and control system based on architectural environment factors. Therefore, It includes the control methods of environmental factors such as thermal environment which have a direct effect on the buildings.	Seoul	Tue3.5-4.5/11:30-13:00,Thu1.5-2.5/09:30-11:00
2021	Spring	Undergraduate	English	College of Engineering	ARC2026	01	Adventure Design	Course focuses on the basic design theories and implement individual or team project to promote efficient engineering design capability. In particular, students learn the methods for improving creativity, make UCC, recognize real problem in life and draw ideas to resolve problem, implement and present design project utilizing Arduino.	Seoul	Mon8.5-11.0/16:30-19:15
2021	Spring	Undergraduate	English	College of Engineering	ARC4046	01	Structural Analysis of Buildings	In this course, structural analysis method using computers is provided. Students will examine the basic concepts and skills required to analyze real buildings under prescribed force systems using well developed computer programs. In addition, an introduction of design of analysis programs will be given.	Seoul	Mon6.5-7.5/14:30-16:00,Wed6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	ARC4061	01	Construction Project Management	The roles and responsibilities of construction management firm covers from the initiation of a construction project to hand-over the completed building(facility). In particular, the roles and responsibilities vary according to the phase of a project progress; pre-design, design, bidding, construction, testing and hand-over. In this course, time, cost, quality, safety and other required management elements will be addressed and discussed.	Seoul	Mon4.5-6.0/12:30-14:30,Wed4.5-6.0/12:30-14:30
2021	Spring	Undergraduate	English	College of Engineering	ARD2010	01	Visual Representation	One of the primary roles of contemporary designers is to organize and employ intangible information for effective communication. The course will introduce students into the practice of communication skills and organization techniques using narrative texts, photographic description, image processing, video-clip editing, geometric modeling, cartographic mapping, etc.	Seoul	Tue8.0-13.5/16:00-21:30
2021	Spring	Undergraduate	English	College of Engineering	ARD2010	02	Visual Representation	One of the primary roles of contemporary designers is to organize and employ intangible information for effective communication. The course will introduce students into the practice of communication skills and organization techniques using narrative texts, photographic description, image processing, video-clip editing, geometric modeling, cartographic mapping, etc.	Seoul	Tue8.0-13.5/16:00-21:30
2021	Spring	Undergraduate	English	College of Engineering	ARD2013	01	Social Syntax and Configuration	Comprehensive studies on procedures of development of social syntax in architectural change and on historical reflection on the various constraints of politics, culture, society and economy.	Seoul	Mon1.5-2.5/09:30-11:00,Fri5.0-6.0/13:00-14:30
2021	Spring	Undergraduate	English	College of Engineering	ARD4037	01	Urban Design and the Built Environment	An introductory lecture for the field of physical planning and design of contemporary cities and regions, with a series of overview of urban design vocabularies and theoretical framework of environmental design principles.	Seoul	Mon5.5-6.5/13:30-15:00,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Engineering	ARD4039	01	Practice of Architecture	The subject is concerned with the architectural profession in the west and Korea and especially with the modern societal context, covering project management, design office management, professional ethics, and legal framework of architectural practice.	Seoul	Thu1.5-4.0/09:30-12:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BES2006	01	Environmental Chemistry	Sources, reactions, transport, effects and fates of chemical species in soils and associated water and air environments. Emphasis on the chemical behavior of elements and compounds and the phenomena affecting natural and anthropogenic materials in soils.	Ilisan	Mon2.5-3.5/10:30-12:00,Wed5.0-6.0/13:00-14:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BES4003	01	Endemic and Domestic Plants	This course examines the morphological structure, physiological and taxonomic characters of environmental plants. The main goal is to develop a scientific way of thinking about biological diversity rather than attempting to memorize the history of living things. The course concentrates on the major areas of conservation of biological diversity, proliferation of rare and endangered species and introduction of high valued exotic species. The course	Ilisan	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BES4005	01	Plant Biotechnology	This lecture provides basic comprehension and knowledge including plant gene, life system, gene functions, and principle of plant biotechnology and their applications such as molecular breeding and genetic transformation. Students will learn about the advanced application strategies of plant biotechnology such as abiotic stress resistant plants and molecular farming. Furthermore, we will learn about the Korean domestic and foreign	Ilisan	Mon5.0-6.0/13:00-14:30,Wed5.0-6.0/13:00-14:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BES4030	01	Environmental Effects Evaluation Capstone Design	Environmental effects evaluation is the study of general theory of environmental impact assessment system. It gives a lecture about prediction and evaluation method from each field and analysis method of environmental data with real example. Students also learn making an environmental effects evaluation reports, consultation and post management.	Ilisan	Mon6.5-7.5/14:30-16:00,Wed6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BES4038	01	Particulate matter	This course introduces atmospheric ammonia emissions from the natural environment including agricultural practices: animal manure waste composting facilities, animal feeding operations, fertilizer spraying activity in land field. Students can calculate the total mass quantification of precursor incorporation from the inventory of ammonia, SOx, NOx in Clean Air Policy Support System (CAPSS).	Ilisan	Tue1.0-2.0/09:00-10:30,Thu1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BIO4019	01	Molecular Biology	Characteristics of nucleic acids and proteins at the molecular level are studied and molecular biological techniques are introduced. Gene structure as well as regulation of gene expression are reviewed in detail.	Ilisan	Mon5.0-6.0/13:00-14:30,Wed6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BIO4024	01	Immunology	Immunology is the study of the physiological mechanisms that human and other animals uses to defend themselves from invasion and other organisms. This class will discuss various aspects of immune system including the area of cell biology, biochemistry, and microbiology to introduce how the complex defense network are coordinated in an efficient manner. The class will provide further understanding of many medical problems related with	Ilisan	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BIO4028	01	Evolutionary Biology	Evolutionary Biology is concerned with the origin of species from a common descent, and descent of species; as well as their change, multiplication, and diversity over time.	Ilisan	Mon6.5-7.5/14:30-16:00,Thu1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BIO4035	01	Proteomics	Proteomics is the study of the proteome which refers to the entire set of expressed proteins in a cell's genome. Proteomics encompasses an effort to catalog and determine the functions of all proteins in a cell.	Ilisan	Tue6.5-7.5/14:30-16:00,Thu6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Buddhist Studies	BIS2008	01	History of Indian Buddhism	The origin, development, and decline of Indian Buddhism; historical outline of general Indian Buddhism; to focus on easy and exact understanding of Indian Buddhism that is origin of Buddhism.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Buddhist Studies	BIS2009	01	Indian Seon Thoughts	A survey of basic concepts in Indian meditation such as the major thoughts, the meditative methods and its history. 1. The meditation and its methods described in the Early Buddhist literature. 2. The thoughts and meditative methods in the Abhidharma and Mahayana Buddhism.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Buddhist Studies	BIS2010	01	Early Buddhism	In order to understand Korean Buddhism, it is important to understand what the original buddhism may be and how it has developed from its very early stage. This lecture surveys Early Indian Buddhism through examining the internal doctrinal development and the external relationship between Buddhism, Jainism, and Brahmanism.	Seoul	Tue1.0-2.0/09:00-10:30,Wed1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Buddhist Studies	BIS4001	01	Tibetan	Understanding Tibetan language takes a major role to reconstruct the Indian Buddhist texts in which the original Sanskrit version is missing. It also is a key to access the vast amount texts preserved in the Tibetan Tripitaka. This lecture aims at studying the Tibetan language from its basic grammar.	Seoul	Tue6.5-7.5/14:30-16:00,Thu6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Buddhist Studies	BIS4007	01	Yogacara Buddhism	This course is a general survey of Yogacara Buddhism. After a general introduction to the history of the thoughts of this school, this course deal with Vasubhandu's Trestise in Thirty Stanzas translated in English.	Seoul	Tue2.5-3.5/10:30-12:00,Wed7.0-8.0/15:00-16:30

2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME2029	01	3	Biomedical Programming 1	This course develops the ability to apply computer programming techniques to various biomedical fields.	Ilsan	Thu7.0-10.5/15:00-18:50
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME4013	01	3	Chemical Biology	Application of chemical techniques and tools to the study and manipulation of biological systems.	Ilsan	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME4018	01	3	Tissue Engineering	The purpose of this curriculum is learning a method of manufacturing for the bioartificial tissues and organs.	Ilsan	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME4031	01	3	Biomedical Laboratory	This course offers an introduction to understand a basic principle of various bio-signals, such as electromyography (EMG), electrocardiography (ECG) and to estimate them via a laboratory experiment.	Ilsan	Tue7.0-10.5/15:00-18:50
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME4045	01	3	MEMS and Sensor engineering	This course offers principles, terminology and fabrications of MEMS based sensor for diagnosis and to get the forecast about next generation of biosensor.	Ilsan	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME4046	01	3	Regenerative Medicine I	For regenerative medicine, we will study various recent technologies as well as emerging integrated technologies to enhance cell and tissue therapeutic effect.	Ilsan	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME4049	01	3	Biomolecular Biology	The process of cultivating the basic skills necessary for medical biotechnology by acquiring the cellular, biochemical and molecular biological levels for the overall functional understanding of biological activities.	Ilsan	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BME4053	01	3	Digital Diagnostic Imaging System	This course offers an introduction to understand the principles of advanced biomedical instruments for diagnosis and treatment based on digital technology.	Ilsan	Mon5.5-6.5/13:30-15:00,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	BSI4001	01	3	생물학 공용DB를 이용한 데이터 분석	This course is designed to teach how to process biological big data which are being accumulated everyday. Using open-source programs such as R and Python, the students will learn to analyze quantitative data, to modify, analyze, and process Big data, and to visualize the results	Ilsan	Mon11.0-14.5/18:50-22:20
2021	Spring	Undergraduate	English	College of Engineering	CEN2026	01	3	Material Engineering	This course deals with the structures, the properties and their relationship of various materials such as metals, ceramics and polymers utilized in many industries. The lecture contents include not only basic theories for the structures and the properties of those materials but principles and examples of their applications in many industries.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	CEN4039	02	3	Chemical Reaction Engineering	The topics to be discussed in this class are kinetics of homogeneous single reactions, ideal reactors (batch, stirred tank, and flow system), conversions and yield in multiple reactions, design and optimization of reactors, non-ideal reactors (the effects of residence, fine distribution and mixedness), heterogeneous nonanalytic reaction(gas-liquid, liquid-liquid, and solid-fluid system), heterogeneous catalytic reactions, and time dependent	Seoul	Tue8.5-9.5/16:30-18:00,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Engineering	CEN4046	01	3	Colloid Science and Engineering	In research, technology and manufacture countless process are encountered which fall squarely within the scope of colloid and surface chemistry. First, a broad description of the scope of colloid and surface chemistry and kinds of variables with which they deal are presented with some illustrative examples. Preparation, characterization, and stability of colloids (emulsions, aerosols, and other multiphase dispersions) and techniques for	Seoul	Mon2.5-3.5/10:30-12:00,Fri2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	CEN4050	01	3	Fluid Mechanics in Chemical Engineering	This course discusses Newtonian and non-Newtonian, laminar and turbulent flow, and drag force followed by makings mass, energy and momentum balances. Various methods to solve several problems in fluid mechanics using balance equations will be introduced and practiced.	Seoul	Tue1.0-2.0/09:00-10:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Engineering	CEN4050	02	3	Fluid Mechanics in Chemical Engineering	This course discusses Newtonian and non-Newtonian, laminar and turbulent flow, and drag force followed by makings mass, energy and momentum balances. Various methods to solve several problems in fluid mechanics using balance equations will be introduced and practiced.	Seoul	Wed2.5-3.5/10:30-12:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Engineering	CEN4056	02	3	Chemical & Biochemical Design 1	Students are given assignments to solve all-around process designing problems of chemical and biochemical engineering area with making a team.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	CEN4079	01	3	Molecular Biotechnology	Principles and applications of recombinant DNA covers both the underlying scientific principles and the wide-ranging industrial, agricultural, pharmaceutical, and biomedical applications of recombinant DNA technology.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Natural Sciences	CHE4046	01	3	Biochemistry	This course aims to understand physical and chemical properties of biomacromolecules such as nucleic acids, proteins, polysaccharides, and lipids, and study their interactions and reaction mechanisms in cells.	Seoul	Tue4.5-7.0/12:30-15:30
2021	Spring	Undergraduate	English	College of Natural Sciences	CHE4056	01	3		The course covers advanced instrumental methods with emphasis on analytical separations and mass spectrometry. Students will learn basic principles and practical aspects of chemical extraction methods, gas/liquid chromatography, electrophoresis, and mass spectrometry. In addition, this course discusses how these analysis methods are applied to various research fields such as biology proteomics, metabolomics, environmental science.	Seoul	Mon1.0-2.0/09:00-10:30,Wed1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Natural Sciences	CHE4061	01	3	Environmental Chemistry	This course reviews matters regarding our environment such as circulating procedures of water, air, ozone, global warming, photochemical smog, waste processing, movement of polluted materials, clean technology, etc. It also introduces advanced environmental nanotechnology based on the understanding about distinctive properties of nano-sized materials.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	CIV2005	01	3	Applied Mechanics	Elementary course for engineering applications of statics. Principles and applications of statics theory: vector, equilibrium equation of idealized rigid bodies and simple structures. Emphasizes the concept of free-body diagrams. Examples with applications in structural engineering.	Seoul	Tue2.5-3.5/10:30-12:00,Fri2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	CIV2031	01	3	Environmental Chemistry	In this class, the chemical and biochemical phenomena which occur in nature will be studied. This class covers source, reaction, transport and impact in air, soil and water environment and categorizes pollutants and introduces some indicators which assess the health of the environment. Also, environmental problem solutions are introduced.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	CIV2036	01	3	CAD and Graphics	Principles of geometric design. Computer generation of 2D and 3D models for infrastructures and engineering systems. Introduction to engineering drawing standards. Practice how to read and make engineering drawings.	Seoul	Fri5.0-8.5/13:00-17:00
2021	Spring	Undergraduate	English	College of Engineering	CIV4007	01	3	Computational Analysis of Structures	Methods and algorithms for computational structural analysis. Reviews fundamental matrix algebra and structural analysis theory. Algorithms for computational implementation of the direct stiffness method. Program practice with MATLAB software to understand computational procedures.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	CIV4015	01	3	Hydraulics and Experiments	The physical properties of the natural flows are covered and the conduit and open channel flows are dealt by theoretical and experimental approaches and the applicable theory for the hydraulic structures are studied.	Seoul	Tue8.0-9.5/16:00-18:00,Thu8.0-9.5/16:00-18:00
2021	Spring	Undergraduate	English	College of Engineering	CIV4020	01	3	Introduction Construction Project Management	This course provides an introduction to basic construction management concepts and techniques to properly manage construction projects. Topics covered in this class includes overview on the construction industry, basic project management concepts, project management body of knowledge, strategic planning, project selection, engineering economics, etc.	Seoul	Tue6.5-7.5/14:30-16:00,Thu6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	CIV4041	01	3	Foundation Engineering	Bearing capacity and settlement analyses for mat foundation and pile foundation, design of excavated soil walls, foundation in various untypical soils, soil improvement methods are reviewed.	Seoul	Mon1.0-2.0/09:00-10:30,Wed1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Engineering	CIV4061	01	3	Reinforced Concrete	Study of the strength, behavior, and design of reinforced concrete members subjected to moments, shear, and axial forces; extensive discussion of the influence of the material properties on behavior.	Seoul	Mon5.0-6.0/13:00-14:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Engineering	CIV4066	01	3	Water Treatment Plant Engineering and Experiment	This lecture is composed of water resources management, designing water treatment plants, principle of water treatment unit processes, theory and practices of water treatment system, and processes of drainage treatment system by physical, chemical, and biological methods. This course will help you acquire an extensive knowledge of water quality management and water treatment plants.	Seoul	Mon6.5-8.0/14:30-16:30,Wed5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Engineering	CIV4071	01	3	Geotechnical Engineering and Disaster Prevention	This course will provide students with the fundamentals of geotechnical earthquake engineering and rainfall-induced landslides and the techniques used to prevent the damages caused by the natural disasters.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Social Sciences	COS4015	01	3	Political Communication	This course is designed to study the maintenance and change of political systems and political procedures from the view of communication. The content of the course focuses on the theories in relation to the content of political messages, the change of political attitudes, the interrelationship between polling styles of voters and communication, and the relationship between states and media. The course also examines the phenomena and	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Social Sciences	COS4024	01	3	Persuasion & Campaign	How to develop a campaign proposal to meet a client's business objectives and how to pitch it.	Seoul	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Police and Criminal Justice	CRS4005	01	3	Big Data and Crime	This class provides the way from how to make big data to how to use big data for analysis the crime and crime prevention.	Seoul	Thu1.0-3.5/09:00-12:00
2021	Spring	Undergraduate	English	College of Police and Criminal Justice	CRS4014	01	3	prediction of criminal recidivism by utilizing a machine learning	This class aims to study about analyze patterns of crime and techniques for effective crime prevention by prediction system and analysis program.	Seoul	Mon2.0-4.5/10:00-13:00

2021	Spring	Undergraduate	English	College of Engineering	CSE2017	01	3	Data Structure	This course introduces data structures and algorithms to solve problems by computers in an effective way. Students learn and practice the methods to implement these with a programming language. Topics include arrays and linked lists, structures such as stacks, queues, trees, graphs, and various methods for searching and sorting of data.	Seoul	Tue2.0-3.5/10:00-12:00,Wed5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Engineering	CSE4066	01	3	Computer Engineering Capstone Design 1	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Among the fundamental elements of design process, the establishment of design objectives and criteria, researches on the previous works, idea making, analysis, presentation for the design proposal, and collaborative design are focused in this course. Students form a team	Seoul	Mon7.0-8.5/15:00-17:00,Fri8.0-9.5/16:00-18:00
2021	Spring	Undergraduate	English	College of Engineering	CSE4066	02	3	Computer Engineering Capstone Design 1	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Among the fundamental elements of design process, the establishment of design objectives and criteria, researches on the previous works, idea making, analysis, presentation for the design proposal, and collaborative design are focused in this course. Students form a team	Seoul	Tue9.0-10.5/17:00-18:50,Fri8.0-9.5/16:00-18:00
2021	Spring	Undergraduate	English	College of Engineering	CSE4066	03	3	Computer Engineering Capstone Design 1	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Among the fundamental elements of design process, the establishment of design objectives and criteria, researches on the previous works, idea making, analysis, presentation for the design proposal, and collaborative design are focused in this course. Students form a team	Seoul	Tue9.0-10.5/17:00-18:50,Fri8.0-9.5/16:00-18:00
2021	Spring	Undergraduate	English	College of Engineering	CSE4066	04	3	Computer Engineering Capstone Design 1	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Among the fundamental elements of design process, the establishment of design objectives and criteria, researches on the previous works, idea making, analysis, presentation for the design proposal, and collaborative design are focused in this course. Students form a team	Seoul	Tue9.0-10.5/17:00-18:50,Fri8.0-9.5/16:00-18:00
2021	Spring	Undergraduate	English	College of Engineering	CSE4067	01	3	Computer Engineering Capstone Design 2	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Continued with the Computer Engineering Capstone Design 1 course, the implementation of detailed system components and their integration, testing, presentation of the design report, engineering ethics are done during this course with team members.	Seoul	Mon9.0-10.5/17:00-18:50,Fri8.0-9.5/16:00-18:00
2021	Spring	Undergraduate	English	College of Engineering	CSE4073	01	3	Human-Computer Interaction System	This course is focused on understanding the concept of HCI, UX and Human-in-the-Loop system by designing various interaction system with various I/Os for the interaction between human and computer, human and machine, and human and robot.	Seoul	Tue5.0-6.5/13:00-15:00,Thu5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2002	01	3	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2002	02	3	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2002	03	3	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make	Seoul	Wed7.0-9.5/15:00-18:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2002	06	3	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2004	01	3	Financial Management	Financial Management is the introductory course that deals with financial decision making based on the time value of money and the risk and return. This course also covers fundamental issues in corporate finance such as capital budgeting and capital structure, and in investments such as capital asset pricing model and valuation of stocks and bonds.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2006	02	3	Principles of Management Information System	This course examines topic and issue related to developing and implementing information technologies in business environment. It covers the concept of management information system, technological issue, business data communication, application of information systems, and development of information system in organization. The course covers recent technical issues and relevant references in addition to a textbook.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2009	01	3	Business English Debate 1	Business English/Business Debate is an English language course catering to students at the business school. The course objective is to prepare students to be able to confidently and successfully function in a business English environment, critically assessing business issues and navigating business challenges in English. Students will develop and practice core business English skills in a realistic environment, through a combination of textbook	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2010	01	3	Business English Debate 2	Business English/Business Debate is an English language course catering to students at the business school. The course objective is to prepare students to be able to confidently and successfully function in a business English environment, critically assessing business issues and navigating business challenges in English. Students will develop and practice core business English skills in a realistic environment, through a combination of textbook	Seoul	Mon5.5-6.5/13:30-15:00,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2013	03	3	Operations Management	This course introduces students to problems and analysis related to the design, planning, control, and improvement of manufacturing and service operations. Broadly speaking, Operations Management concerns the processes by which work and resources are directed toward the achievement of strategic objectives. It thus requires a fundamental understanding of organizational strategy, processes, and resources. Coverage will attempt	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2017	01	3	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2017	02	3	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing	Seoul	Wed5.5-6.5/13:30-15:00,Wed7.0-8.0/15:00-16:30,Fri5.5-6.5/13:30-15:00,Fri7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2017	03	3	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2017	04	3	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2017	05	3	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	Dongguk Business School	DBA2017	06	3	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing	Seoul	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Social Sciences	DUF2002	01	1	Introduction to Social Science	The goal of this course is to help students explore the fundamental knowledge and theory of modern society. This is an introductory level class designed to address the crucial facts of social science. More importantly, this class aims at providing useful tips and information regarding successful academic life for freshmen. Therefore, first year students who are interested in Social Science field are expected to participate in this class more assertively in	Seoul	Mon4.0-4.5/12:00-13:00
2021	Spring	Undergraduate	English	College of Social Sciences	DUF2002	02	1	Introduction to Social Science	The goal of this course is to help students explore the fundamental knowledge and theory of modern society. This is an introductory level class designed to address the crucial facts of social science. More importantly, this class aims at providing useful tips and information regarding successful academic life for freshmen. Therefore, first year students who are interested in Social Science field are expected to participate in this class more assertively in	Seoul	Thu8.5-9.0/16:30-17:30
2021	Spring	Undergraduate	English	College of Engineering	DUF2003	01	1	Introduction to Engineering	The goal of this course is to prepare freshmen students to achieve success in their university life and to introduce them to topics in the area of Engineering.	Seoul	Wed5.0-5.5/13:00-14:00
2021	Spring	Undergraduate	English	College of Engineering	DUF2003	02	1	Introduction to Engineering	The goal of this course is to prepare freshmen students to achieve success in their university life and to introduce them to topics in the area of Engineering.	Seoul	Wed6.0-6.5/14:00-15:00
2021	Spring	Undergraduate	English	College of Engineering	DUF2003	03	1	Introduction to Engineering	The goal of this course is to prepare freshmen students to achieve success in their university life and to introduce them to topics in the area of Engineering.	Seoul	Wed7.0-7.5/15:00-16:00
2021	Spring	Undergraduate	English	College of Natural Sciences	DUF2004	01	1	Introduction to Natural Science	In science, to make students realized that natural science refers to a naturalistic approach to the study of the universe, which is understood as obeying rules or laws of natural origin.	Seoul	Wed7.0-7.5/15:00-16:00
2021	Spring	Undergraduate	English	College of Law	DUF2005	01	1	Introduction to Legal Studies	The course is designed to introduce students to some of the basic skills needed for the study of law and to give the student a basic understanding of some aspects of the English legal system.	Seoul	Mon10.0-10.5/18:00-18:50
2021	Spring	Undergraduate	English	College of Law	DUF2005	02	1	Introduction to Legal Studies	The course is designed to introduce students to some of the basic skills needed for the study of law and to give the student a basic understanding of some aspects of the English legal system.	Seoul	Mon11.0-11.5/18:50-19:40
2021	Spring	Undergraduate	English	College of Social Sciences	ECO2007	01	3	Principles of Microeconomics	It deals with the basic level of microeconomic subjects, such as economic decisions of consumers and producers, and their interactions in markets(for freshmen).	Seoul	Tue2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Social Sciences	ECO2008	01	3	Principles of Macroeconomics	It deals with definitions of important macroeconomic variables, e.g., GDP, CPI, inflation, unemployment, money, and basic level of macroeconomic theories.	Seoul	Mon1.0-2.0/09:00-10:30,Wed1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Social Sciences	ECO2008	02	3	Principles of Macroeconomics	It deals with definitions of important macroeconomic variables, e.g., GDP, CPI, inflation, unemployment, money, and basic level of macroeconomic theories.	Seoul	Mon5.5-6.5/13:30-15:00,Wed5.5-6.5/13:30-15:00

2021	Spring	Undergraduate	English	College of Social Sciences	ECO2009	01	3	Micro-Economics	Microeconomics covers topics such as the consumer's behavior, a firm's profit maximization and features of market equilibrium. Its main objective is to let students learn how to analyze consumers' and firms' rational behavior under various market situations. It also analyzes the economic implications of various market structures and the meaning of the market equilibrium. By studying this subject, students are able to learn the basics of optimal	Seoul	Tue4.0-5.0/12:00-13:30,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Social Sciences	ECO2009	02	3	Micro-Economics	Microeconomics covers topics such as the consumer's behavior, a firm's profit maximization and features of market equilibrium. Its main objective is to let students learn how to analyze consumers' and firms' rational behavior under various market situations. It also analyzes the economic implications of various market structures and the meaning of the market equilibrium. By studying this subject, students are able to learn the basics of optimal	Seoul	Tue5.5-6.5/13:30-15:00,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Social Sciences	ECO2010	01	3	Macroeconomics	This course is designed to enhance students understanding of two major macroeconomic phenomena- the business cycle and economic growth- and other related ones. Basic macroeconomic models of income determination, price adjustment, and economic growth will be taught. Evaluation of governments macroeconomic policies will be covered, too.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Social Sciences	ECO2010	02	3	Macroeconomics	This course is designed to enhance students understanding of two major macroeconomic phenomena- the business cycle and economic growth- and other related ones. Basic macroeconomic models of income determination, price adjustment, and economic growth will be taught. Evaluation of governments macroeconomic policies will be covered, too.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Social Sciences	ECO4020	01	3	Financial Economics	This course deals with the issues involving money and financial markets. The course is designed to equip students for better understanding of the basic workings of the financial markets, financial instruments and asset pricing, and that students can gain practical knowledge along with theories.	Seoul	Mon10.0-12.5/18:00-20:30
2021	Spring	Undergraduate	English	College of Social Sciences	ECO4024	01	3	Game Theory	Game theory is the study of strategic decisions by multiplayer.It provides a framework based on the construction of rigorous models that describe situations of conflict and cooperation between rational decision makers, which is useful tools for further studies in economics and other fields of social science.In this course, we will overview the classical results in Game Theory such as Nash equilibrium as well as more recent topics.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Social Sciences	ECO4024	02	3	Game Theory	Game theory is the study of strategic decisions by multiplayer.It provides a framework based on the construction of rigorous models that describe situations of conflict and cooperation between rational decision makers, which is useful tools for further studies in economics and other fields of social science.In this course, we will overview the classical results in Game Theory such as Nash equilibrium as well as more recent topics.	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Social Sciences	EGC3045	01	3	Understanding Advertising and Public Relations	This course is intended to explore the role of advertising and PR in contemporary society and comprehend the basic objectives and functions of advertising and PR in the disciplines of profit and nonprofit organizations. Also, this course overviews the general processes of message development and media execution, and attempts to systematically incorporate various industrial cases into the theories of advertising and PR.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Humanities	EIT2002	01	3	Introduction to English Linguistics	This course is an introduction to the basic study of the English language. The course investigates the syntactic, semantic, and functional characteristics of the language. Students will learn basic English grammar and apply the knowledge to English reading and writing.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Humanities	EIT2002	02	3	Introduction to English Linguistics	This course is an introduction to the basic study of the English language. The course investigates the syntactic, semantic, and functional characteristics of the language. Students will learn basic English grammar and apply the knowledge to English reading and writing.	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Humanities	EIT2002	03	3	Introduction to English Linguistics	This course is an introduction to the basic study of the English language. The course investigates the syntactic, semantic, and functional characteristics of the language. Students will learn basic English grammar and apply the knowledge to English reading and writing.	Seoul	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Humanities	EIT2002	04	3	Introduction to English Linguistics	This course is an introduction to the basic study of the English language. The course investigates the syntactic, semantic, and functional characteristics of the language. Students will learn basic English grammar and apply the knowledge to English reading and writing.	Seoul	Mon8.5-9.5/16:30-18:00,Wed8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Humanities	EIT2048	01	3	Fundamentals of English Listening & Speaking 1	This course is designed to enhance students' listening and speaking proficiency, which will improve their communication competence and interpretation skills. Students will be exposed to a variety of English texts in education, arts, politics, economy, etc.	Seoul	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Humanities	EIT2048	02	3	Fundamentals of English Listening & Speaking 1	This course is designed to enhance students' listening and speaking proficiency, which will improve their communication competence and interpretation skills. Students will be exposed to a variety of English texts in education, arts, politics, economy, etc.	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Humanities	EIT2049	01	3	Discussion & Presentation in English	The purpose of this course is to help students improve their presentation skills in English. Students will discuss various topics in current events and learn how to present their thoughts effectively in public.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Humanities	EIT4019	01	3	English Syntax	This course will provide students with analytic methods of the structure of English sentences. Based on the perspectives of generative grammar, the course will explore syntactic operations and phenomena. Students will be taught to apply the knowledge to English reading and pronunciation.	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Humanities	EIT4019	02	3	English Syntax	This course will provide students with analytic methods of the structure of English sentences. Based on the perspectives of generative grammar, the course will explore syntactic operations and phenomena. Students will be taught to apply the knowledge to English reading and pronunciation.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Humanities	EIT4055	01	1	Career Mentoring for EIT Majors	Study of career development theories and decision-making models, career planning, career education, sources of educational and occupational information, nature and structure of the world of work, and leisure and lifestyle development	Seoul	Mon6.0-6.5/14:00-15:00
2021	Spring	Undergraduate	English	College of Humanities	EIT4066	01	3	Professional English Writing	This course will focus on writing in a professional manner, as this style of writing requires more sophistication than our every day, familiar syntax. In this course, students will practice writing CVs/resumes, professional letters, professional e-mails, statements of purpose for specific jobs or projects, refined personal skills descriptions, and the artful language of diplomatic disagreement when dealing with bosses, coworkers, clients, or customers.	Seoul	Tue8.5-9.5/16:30-18:00,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Humanities	EIT4070	01	3	English-Korean Consecutive Interpreting 1	This course enables students to learn basic concepts and skills related to consecutive interpretation. Exercises of increasing difficulty are introduced to equip students with the basic techniques of interpreting and to increase their confidence and competence in consecutive interpreting. Students will also be trained to deal with the basic problems and psychological constraints associated with this type of interpretation.	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Engineering	EME2004	01	3	Thermodynamics of Materials I	The purpose of Thermodynamics of Materials is to understand and expect the various chemical reactions and physical phenomena in material engineering. It is important to understand the physical and mathematical meanings of the four laws of thermodynamics and to apply them. Therefore, in this lecture, based on the understanding of the four laws of thermodynamics, various reactions (gas reaction, solid reaction and so on) are discussed	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	EME2015	01	3	Introduction of nanoscience and nanotechnology	This lectures introduce a lot of issues raised in the present nanoscience or nanotechnology as well as the fundamental theories explanatory of the unique properties in nano-regime. The practical application of nanotechnology to industry will be also informed.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	EME2018	01	3	Chemistry of Organic materials 1	This course give an understanding of how can make organic molecule and structure of those materials. Details are synthesis of organic molecules such as linear hydrocarbon, ring aromatic molecule, ether, acids, alcoholic molecule etc. and the naming and structure, properties also will be given in the course.	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Engineering	EME4031	01	3	Polymer Chemistry	This lecture covers basic concepts, chemistry and analysis of polymers, which is required to understand the chemical properties of polymers and their applications.	Seoul	Mon5.5-6.5/13:30-15:00,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Engineering	EME4036	01	3	Biomaterials	There are lots of biomaterials under academic research or under commercialization due to their various industrial applications. Simple molecules obtained from biological system, biopolymers purified from plants, artificially synthesized materials to apply biological systems and etc. are good examples of biomaterials. In this subject, we are going to study basic principles to develop biomaterials and a wide spectrum of examples in developed	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Engineering	ENE2002	03	3	Circuit Theory I	The goal of this subject are to build an understanding of concepts and ideas explicitly in terms of previous learning, and to emphasize the relationship between conceptual understanding and problem-solving approaches.	Seoul	Thu6.5-7.5/14:30-16:00,Fri6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	ENE4004	01	3	Solid State Electronic Devices	This lecture discusses CMOS device physics and models for designing analog, digital and RF integrated circuits. The topics include: SPICE model, parameter extraction, layout method, parasitic devices and IC developing environment.	Seoul	Thu2.5-3.5/10:30-12:00,Fri2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	ENE4007	01	3	Electrical Machinery I	This course introduces the principles and characteristics of the electrical-machine energy conversion. Topics discussed here include direct current machines and stationary induction machines.	Seoul	Mon9.5-10.5/17:30-18:50,Tue9.5-10.5/17:30-18:50
2021	Spring	Undergraduate	English	College of Engineering	ENE4007	02	3	Electrical Machinery I	This course introduces the principles and characteristics of the electrical-machine energy conversion. Topics discussed here include direct current machines and stationary induction machines.	Seoul	Thu1.0-2.0/09:00-10:30,Fri1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Engineering	ENE4014	02	3	Digital Signal Processing and Design	We lecture principles of the frequency characteristics of digital filters based on Fourier and Z-transform, including in-depth treatment on FIR and IIR filter design methods. Course contains a computer laboratory and digital filter design projects using a software tool.	Seoul	Thu6.5-7.5/14:30-16:00,Fri6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	ENE4026	01	3	Power Electronics	Students will learn about power semiconductor devices and electronic circuits that can be used in the application, power generation and control systems of electrical energy.	Seoul	Mon8.0-9.0/16:00-17:30,Wed6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	ENE4031	01	3	Robotics	This is an introductory course on robotics. This course covers dynamics, control engineering, sensor and instrumentation techniques.	Seoul	Tue1.0-2.0/09:00-10:30,Wed1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Engineering	ENE4067	01	3	Modern Control Engineering	This is based on the foundations of modern control system analysis, and simulation and computer aided design using the MATLAB. Students learn sampled data system, performance of a sampled data and second order system, closed loop systems with digital computer compensation. In the laboratory, students experiment linear feedback control system, embedded system, remote control, and micro-mouse.	Seoul	Mon1.0-2.0/09:00-10:30,Wed2.5-3.5/10:30-12:00

2021	Spring	Undergraduate	English	College of Humanities	ENG2007	02	3	Literature in English-Speaking Nations	Reading of literary works in English speaking nations such as Australia, Canada, Ireland, South Africa, Jamaica, India etc. The works are reviewed from postcolonial viewpoints.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Humanities	ENG2027	01	3	English Grammar for Speaking	The purpose of this course is to teach English Grammar based on speaking so that students can improve their grammar skill as well as speaking skill.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Humanities	ENG2027	02	3	English Grammar for Speaking	The purpose of this course is to teach English Grammar based on speaking so that students can improve their grammar skill as well as speaking skill.	Seoul	Tue8.5-9.5/16:30-18:00,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Humanities	ENG2029	01	3	Introduction to English Language and Literature	This course covers following masterpieces in the early part of English literature: Beowulf, an epic poem in Old English; romance, mediaeval religious lyric; mediaeval morality plays like Every man; Renaissance sonnets; Shakespeare's plays; Metaphysical poems; Milton's poems; Dryden's works in the restoration period; Pope's and Dr. Johnson's writings; and finally some 18th-century novels.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Humanities	ENG2029	02	3	Introduction to English Language and Literature	This course covers following masterpieces in the early part of English literature: Beowulf, an epic poem in Old English; romance, mediaeval religious lyric; mediaeval morality plays like Every man; Renaissance sonnets; Shakespeare's plays; Metaphysical poems; Milton's poems; Dryden's works in the restoration period; Pope's and Dr. Johnson's writings; and finally some 18th-century novels.	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Humanities	ENG2035	01	3	English Conversation Practice	Students of this class learn to speak on a variety of topics in English. Through reading selections from the textbook, they acquire the use of advanced-intermediate vocabularies in context. The accompanying tape also provides practice in listening to native speakers with a variety of American accents and a RP British accent.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Humanities	ENG2035	02	3	English Conversation Practice	Students of this class learn to speak on a variety of topics in English. Through reading selections from the textbook, they acquire the use of advanced-intermediate vocabularies in context. The accompanying tape also provides practice in listening to native speakers with a variety of American accents and a RP British accent.	Seoul	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Humanities	ENG2035	03	3	English Conversation Practice	Students of this class learn to speak on a variety of topics in English. Through reading selections from the textbook, they acquire the use of advanced-intermediate vocabularies in context. The accompanying tape also provides practice in listening to native speakers with a variety of American accents and a RP British accent.	Seoul	Mon8.5-9.5/16:30-18:00,Wed8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Humanities	ENG4044	01	3	American Culture and Film	This class deals with American culture in general both in written and visual texts. In more detail, it tries to make a definition of American culture, seeking to find its multi-cultural examples, and finally comparing it with other cultures.	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Humanities	ENG4057	01	3	Future Humans	This class aims to study in British/American literary works what kinds of new human beings will appear at the 4th Industrial Age. The humans in the 21st century are expected to be different from those who have lived before because of rapid scientific developments and speedy evolutionary transitions. The class will try to figure out those future humans in British/American poetry, novels, and dramas.	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Arts	FIL2081	01	1	Screening of Korean Film	This class will be dedicated to screening and discussing on Korean film to understand history, industry and aesthetics of Korean film. Open to Film major, (Offered spring semester.) 1 credits	Seoul	Thu3.0-4.5/11:00-13:00
2021	Spring	Undergraduate	English	College of Arts	FIL2101	02	3	Film Production Workshop I	Students work in small teams on focused projects. Participants are expected to finish two or three short videos(under five minutes). Students will complete several small exercises in Directing, producing, shooting, sound recording and editing. Open to Film majors only, Sophomore (Offered every semester.) 3 credits	Seoul	Tue6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Arts	FIL4090	01	1	Screening of Classical Cinema	This class will be dedicated to screening and discussing on classical film of worldwide to understand history, industry and aesthetics of classical film.	Seoul	Fri3.0-4.5/11:00-13:00
2021	Spring	Undergraduate	English	College of Social Sciences	FIS2020	01	3	Food Microeconomics	Food Price investigates the principle which determines the food price under the system of free-market-competition, examine how to form food-price in Korea and it also studies the principle of changing prices, food price policy and market character.	Seoul	Wed7.5-8.5/15:30-17:00,Thu7.5-8.5/15:30-17:00
2021	Spring	Undergraduate	English	College of Social Sciences	FIS4019	01	3	Food-Resource Econometrics	Food-Resource Econometrics studies Econometrics analysis to measure the economy of food business industry and improves the practical ability by researching concerning models and parameters in order to evaluate efficiencies of resources in agriculture and food objectively.	Seoul	Wed5.0-6.0/13:00-14:30,Thu5.0-6.0/13:00-14:30
2021	Spring	Undergraduate	English	College of Social Sciences	FIS4020	01	3	Agri-Food Marketing	Agri-Food Marketing, first, studies basic theories and characters of current marketing and food goods marketing, second, comprehends the birth and development of market which is instended by cultures and systems, relates between varies and development process of distribution condition, third, obtains the minds toward market and consumer which is basic thinking of Agri-Food Marketing and then finally has a purpose to practice the concrete	Seoul	Tue2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	FOO2018	01	3	Introduction to Food Science	Introduction of basic food science principles for freshmen	Ilisan	Tue3.0-4.0/11:00-12:30,Wed3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	FOO2019	01	3	Nutritional epidemiology for food scientists	This course introduces principles behind nutritional epidemiology to design a study and to evaluate the health effects of nutrients, foods, and dietary patterns. Knowledges learned from this course will benefit students who plan to devote their careers to discovering new food items in food industry.	Ilisan	Tue2.5-3.5/10:30-12:00,Wed1.5-2.5/09:30-11:00
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	FOO2021	01	3	Biostatistics	This class aims to equip students with basic statistical knowledge required to analyse and interpret experimental results in the field of food science and biotechnology.	Ilisan	Tue5.5-6.5/13:30-15:00,Wed3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	FOO4004	01	3	Food Microbiology Lab	Basic techniques in preparation of media, sterilization, isolation and pure culture, microscopic observation, Gram staining of bacteria, size determination of microorganism will be examined.	Ilisan	Wed7.0-11.5/15:00-19:40
2021	Spring	Undergraduate	English	College of Life Science and Biotechnology	FOO4029	01	3	Food Immunology Lab	This experimental lecture introduces immunological techniques such as animal cell culture, gene and protein expression and provides immune responses to ingested food components.	Ilisan	Mon2.0-6.5/10:00-15:00
2021	Spring	Undergraduate	English	General Education	GCR2003	01	3	The Structure of Language and Its Social and Historical Aspects	This course will provide broad coverage of the field of linguistics, including phonological and grammatical analysis, diversity and complexity of human languages, dimensions of language use. We will explore the systematic, rule-governed nature of human language, as well as psychological, biological, and social considerations in its use. Linguistic analysis, argumentation, and problem solving will be emphasized. This course is intended to show	Seoul	Mon4.0-5.0/12:00-13:30,Wed3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	General Education	GCR4002	01	3	Understanding Language, Neuroscience, and Human Development	This course covers human development and the functions of the brain related to language. We will discuss physical properties of human brain, especially lateralization and contralateralization of the brain. Brain disorders related to language will be discussed such as aphasia, autism and William's syndrome. We will have a chance to look at brain waves obtained from various areas in the brain that are related to sub-areas of language. We will	Seoul	Tue6.0-7.0/14:00-15:30,Fri6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	General Education	GCR7002	01	3	EnglishThroughDrama	This class is in which students will practice English through drama (stage plays and/or movie adaptations) with a focus on improvising and writing. Students will analyze motivation and conflict, write scenes, and perform drama. Students will be expected to actively participate in every class. Students will improve their confidence in speaking in front of people, learn how to react quickly in new situations, learn new ways of looking at the world.	Seoul	Tue8.0-9.0/16:00-17:30,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Humanities	HIS4037	01	3	Recently Modern History of Europe	A general survey of the evolution of European history from the Industrial Revolution to World War I with special attention to the rise of nationalism, capitalism, and imperialism that sharpened conflicts among the nations and finally comparative analysis of the European society since the Industrial Revolution. And a general survey of the evolution of European history from World War I to World War II with special attention to the rise of Russian	Seoul	Fri2.0-4.5/10:00-13:00
2021	Spring	Undergraduate	English	College of Engineering	INC4084	01	3	Capstone Design 1	This class deals with the engineering design which is defined as the process of devising a system, component, or process to meet desired needs. Among the fundamental elements that are taught in the capstone design class are the establishment of objectives and criteria, synthesis, analysis, construction, testing, and evaluation. Students form a team and work on a project throughout the semester. Senior students must take one capstone design class for	Seoul	Thu10.0-13.5/18:00-21:30
2021	Spring	Undergraduate	English	College of Engineering	INC4084	02	3	Capstone Design 1	This class deals with the engineering design which is defined as the process of devising a system, component, or process to meet desired needs. Among the fundamental elements that are taught in the capstone design class are the establishment of objectives and criteria, synthesis, analysis, construction, testing, and evaluation. Students form a team and work on a project throughout the semester. Senior students must take one capstone design class for	Seoul	Thu10.0-13.5/18:00-21:30
2021	Spring	Undergraduate	English	College of Engineering	INC4093	01	3	Software Engineering and Practice	This course is designed to provide students with an overview of Software Engineering, concentrating on practical aspects that are used for developing large and complex software systems. Key features are software process management, requirement engineering, system design, software testing, and code optimization.	Seoul	Tue5.0-6.5/13:00-15:00,Thu5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Engineering	INC4093	02	3	Software Engineering and Practice	This course is designed to provide students with an overview of Software Engineering, concentrating on practical aspects that are used for developing large and complex software systems. Key features are software process management, requirement engineering, system design, software testing, and code optimization.	Seoul	Tue7.0-8.5/15:00-17:00,Thu7.0-8.5/15:00-17:00
2021	Spring	Undergraduate	English	College of Engineering	INC4096	01	3	Machine Learning	Machine Learning is one of important area in Artificial Intelligence. In this class, students will learn the most effective machine learning techniques and gain practices to work for yourself.	Seoul	Mon2.0-3.0/10:00-11:30,Wed2.0-3.0/10:00-11:30
2021	Spring	Undergraduate	English	College of Police and Criminal Justice	INS2002	01	3	Corporate Crime	This course provides the analysis of corporate crime and the effect of corporate crime on society for solution to stop corporate crime.	Seoul	Fri6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Police and Criminal Justice	INS2010	01	3	Introduction to Networks	In this class, students learn the concept of network communication technology based on data and information. In detail, network communication requirements, management technical requirements of business infrastructure, physical network communication, and digital convergence are discussed.	Seoul	Thu1.0-3.5/09:00-12:00
2021	Spring	Undergraduate	English	College of Police and Criminal Justice	INS4012	01	3	Industrial Security	As a Subject of Industrial and Academic Cooperation, this course is designed to introduce all-pervasive crime prevention techniques of asset protection, colossal loss prevention and crisis management for industrial organizations. Multi-faceted threats and dangers to the industrial security and corporate world have increased many folds from international terrorism, strikes, sabotage, espionage, subversion, cyber and white collar crime. In this	Seoul	Fri1.0-3.5/09:00-12:00

2021	Spring	Undergraduate	English	College of Social Sciences	INT2001	02	3	Microeconomics	Microeconomics studies the economic behaviour of individual consumers, firms, and industries and the distribution of total production and income among them. It considers individuals both as suppliers of labour and capital and as the ultimate consumers of the final product.	Seoul	Mon4.5-5.5/12:30-14:00,Wed4.5-5.5/12:30-14:00
2021	Spring	Undergraduate	English	College of Social Sciences	INT4001	02	3	International Finance	This course deals with the effect of capital movement on exchange rate, interest rate and balance of payments in global market.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	ISE2009	01	3	CAD and Laboratory Work	CAD(Computer Aided Design) is being applied actively in many industries with the development of the computer. CAD plays an important role in the design of complicated geometry, storage/transformation of product data, numerical analysis, etc. Therefore, in this class, we study the fundamental theory of engineering designs and computer graphics, as well as the hands-on experience of commercial CAD system which can be mostly used in	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	ISE2009	02	3	CAD and Laboratory Work	CAD(Computer Aided Design) is being applied actively in many industries with the development of the computer. CAD plays an important role in the design of complicated geometry, storage/transformation of product data, numerical analysis, etc. Therefore, in this class, we study the fundamental theory of engineering designs and computer graphics, as well as the hands-on experience of commercial CAD system which can be mostly used in	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Engineering	ISE2020	01	3	Understanding of Industrial & Systems Engineering	This course aims to enhance the understanding of students about industrial & systems engineering in terms of concepts, history, study areas, and career by exploring various problems and cases in diverse domains such as manufacturing, service, and information industries.	Seoul	Fri5.5-8.0/13:30-16:30
2021	Spring	Undergraduate	English	College of Engineering	ISE2020	02	3	Understanding of Industrial & Systems Engineering	This course aims to enhance the understanding of students about industrial & systems engineering in terms of concepts, history, study areas, and career by exploring various problems and cases in diverse domains such as manufacturing, service, and information industries.	Seoul	Fri5.5-8.0/13:30-16:30
2021	Spring	Undergraduate	English	College of Engineering	ISE4002	01	3	Production & Operations Management	Students will learn theories and techniques for the production and service systems with respect to productivity and operational efficiency from this course. Various cases form real production sites will be referenced during the course and each student will submit his/her own report focused on efficiency and effectiveness improvement. Operations research and heuristic methods will be utilized as solving tools.	Seoul	Tue8.5-9.5/16:30-18:00,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Engineering	ISE4008	01	3	Introduction to Financial Engineering	This course will help the student understand what is driving financial choices in the company. The topics addressed in this course mainly include capital budgeting, risk and return, capital structure and dividend policy and financing, etc. Although the course emphasizes corporate finance, the student will also learn about the basics of the derivatives and risk hedging.	Seoul	Mon8.5-9.5/16:30-18:00,Wed8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Engineering	ISE4021	01	3	Simulation and Its Application	Computer simulation is an important management science tool for analysis and design of production systems, logistics systems, information systems and service systems, etc.. This course deals with the simulation methodologies with ARENA simulation language. Course topics include the random number generation, statistical methods to analyze the results. Student are expected to learn elementary level of probability and statistics and Management	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	ISE4041	01	3	Data Analytics	This course aims to enable students to collect and analyze industrial data including technological, product, social and market data, and utilize the results of data analysis, building a strategy on various activities in order to practically apply the big data analysis in a real field.	Seoul	Tue7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2012	01	3	Basic Japanese Conversation for Foreign Student	This course is for only foreign students and will provides training in the basic Japanese conversation.	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2015	01	3	Japanese Literature of Pictures	This course introduces the Japanese literature through motion picture learning materials.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2017	01	3	Business Japanese	In this class, students examine the related language and situation on business. This course provides how to prepare business communication materials by providing them how to write letters of response to claim, offer and so forth. Through this course students can improve their skill to communicate in commercial area.	Seoul	Tue7.5-8.5/15:30-17:00,Thu7.5-8.5/15:30-17:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2018	01	3	Introduction to Japanese Economics	This course focuses on the general theories about the Japanese economy and the latest trends to help students understand the Japanese economics for the first time. In particular, students will understand the economic society and application skills through various examples.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2019	01	3	Introduction of Japanese as a Major	This course is introduction to the basic study of the Japanese language as a major. The course will provide opportunities for students to solidify knowledge about elementary Japanese letter, phonetics, word, grammar.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2019	02	3	Introduction of Japanese as a Major	This course is introduction to the basic study of the Japanese language as a major. The course will provide opportunities for students to solidify knowledge about elementary Japanese letter, phonetics, word, grammar.	Seoul	Tue7.5-8.5/15:30-17:00,Fri7.5-8.5/15:30-17:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2020	01	3	Understanding of Japanese Grammar	This course will provide opportunities for students to solidify knowledge about Japanese grammar through education of itemized list and practice.	Seoul	Mon5.5-6.5/13:30-15:00,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP2021	01	3	Role Play Japanese Conversation	This course provides training in the intermediate conversation This course is focused on role play practice using conversation on topics about trade with japan and industries.	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP4001	01	3	Introduction to Japanese Linguistics	Students in this course seek to understand the structure of modern Japanese through the education of letter, phonetics, word, grammar.	Seoul	Mon5.5-6.5/13:30-15:00,Fri5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP4005	01	3	Sino-Japanese	This course offers concrete knowledge of the sound of Sino-Japanese through comparative study with Sino-Korean based on Middle Chinese. and study changing of Phoneme.	Seoul	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP4006	01	3	Introduction to Japanese Literature	Students research representative classical Japaneses literary works.	Seoul	Tue1.0-2.0/09:00-10:30,Thu1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP4018	01	3	Japanese social linguistics	In this course, students can understand the characteristics of the Japanese through the various analysis as like culture, class, gender, industries, politics, economics.	Seoul	Mon8.5-9.5/16:30-18:00,Wed8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP4021	01	3	Understanding of Japanese Society and Culture	In this course, Students thoroughly understand modern culture and society.	Seoul	Tue6.0-7.0/14:00-15:30,Thu6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP4022	01	3	Understanding of Japanese Politics and Diplomacy	In this course, Students thoroughly understand modern Politics and, Diplomacy.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	Japanese	College of Humanities	JAP4025	01	3	Industries and Innovation of Japan(Capstone design)	Not available yet	Seoul	Wed2.5-3.5/10:30-12:00,Fri2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Natural Sciences	MAT203_0	01	3	Advanced Calculus	The topics in this course are axioms of real number system, limit of sequence, limit of functions, mean value theorem, fundamental theorem of calculus, vector, tangent plane of surface, Lagrangian multiplier, line integral, double integral, triple integral.	Seoul	Mon7.0-8.0/15:00-16:30,Fri6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Natural Sciences	MAT203_5	01	3	Linear Algebra	This course focuses on linear systems and matrices, real vector space, basis and dimension, coefficients of matrices, Inner product space, orthonormal basis, linear transformation, kernel and image, matrix of linear transformation, etc.	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Natural Sciences	MAT400_3	01	3	Introduction to Analysis	Real numbers, Bolzano-Weierstrass theorem, Compact sets, Heine-Borel theorem, Cauchy sequence, Monotone convergence theorem, Continuity, Uniform continuity, Connected sets, Sequences of functions and The Stone-Weierstrass approximation theorem.	Seoul	Mon1.5-2.5/09:30-11:00,Wed1.5-2.5/09:30-11:00
2021	Spring	Undergraduate	English	College of Natural Sciences	MAT401_6	01	3	Numerical Analysis	This course analyzes all the problems happening in numerical analysis like error analysis, finding optimum value, etc. It reviews analysis theories and handles how to solve differential calculus, etc.	Seoul	Mon4.5-6.0/12:30-14:30,Fri4.5-6.0/12:30-14:30
2021	Spring	Undergraduate	English	College of Natural Sciences	MAT404_2	01	3	Introduction to Topology	The topics in this course are definition of topology, basis, subspace, continuous map, metric space, countability, separation axiom, compactness.	Seoul	Wed6.0-7.0/14:00-15:30,Fri2.0-3.0/10:00-11:30
2021	Spring	Undergraduate	English	College of Natural Sciences	MAT404_4	01	3	Complex Variables	The topics in this course are complex function, differentiation of complex function, harmonic function, multi-valued function and its branch, line integral, Cauchy theorem, Cauchy integral formula, Liouville theorem, fundamental theorem of algebra, complex series, Laurant series, singularity, residue, Rouch theorem, Schwarz lemma, conformal mapping.	Seoul	Tue3.5-4.5/11:30-13:00,Thu3.5-4.5/11:30-13:00
2021	Spring	Undergraduate	English	College of Natural Sciences	MAT404_7	01	3	Modern Algebra I	This course gives an introduction of modern and abstract algebra to mathematics major. Topics include the definition of a group, Lagrange Theorem,Cayley Theorem, Isomorphism Theorems, Quotient groups, the elementary theory of rings and fields, and Modern Algebra I idelas.	Seoul	Tue2.0-3.0/10:00-11:30,Thu2.0-3.0/10:00-11:30
2021	Spring	Undergraduate	English	College of Engineering	MEC200_1	01	2	Mechanical Engineering Drawing	Understanding and analyzing drawings are main issue in this course and students perform actual drawings. Projection method, dimensioning, part drawing, working drawing are introduced and CAD projects using computers are also performed.	Seoul	Mon8.0-11.5/16:00-19:40

2021	Spring	Undergraduate	English	College of Engineering	MEC2001	02	2	Mechanical Engineering Drawing	Understanding and analyzing drawings are main issue in this course and students perform actual drawings. Projection method, dimensioning, part drawing, working drawing are introduced and CAD projects using computers are also performed.	Seoul	Tue8.0-11.5/16:00-19:40
2021	Spring	Undergraduate	English	College of Engineering	MEC2001	03	2	Mechanical Engineering Drawing	Understanding and analyzing drawings are main issue in this course and students perform actual drawings. Projection method, dimensioning, part drawing, working drawing are introduced and CAD projects using computers are also performed.	Seoul	Wed8.0-11.5/16:00-19:40
2021	Spring	Undergraduate	English	College of Engineering	MEC2018	01	3	Thermodynamics	Engineering thermodynamics is one of fundamental courses in Mechanical Engineering, which provides a thorough understanding of basic concepts in thermo-fluid area including characteristics of pure substances, heat and work, laws of thermodynamics, internal energy, enthalpy, entropy. Students are prepared with the ability to systematically apply the basic concepts to the solution of practical problems.	Seoul	Mon1.0-2.0/09:00-10:30,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	MEC2018	02	3	Thermodynamics	Engineering thermodynamics is one of fundamental courses in Mechanical Engineering, which provides a thorough understanding of basic concepts in thermo-fluid area including characteristics of pure substances, heat and work, laws of thermodynamics, internal energy, enthalpy, entropy. Students are prepared with the ability to systematically apply the basic concepts to the solution of practical problems.	Seoul	Mon2.5-3.5/10:30-12:00,Wed5.0-6.0/13:00-14:30
2021	Spring	Undergraduate	English	College of Engineering	MEC2036	01	3	Adventure Design	This course is concerned with the engineering design procedure and the study of effects of the engineering design on modern technical society. Also, this course provides the opportunity of conceiving the job prospective, ethics and continuous learning.	Seoul	Mon6.5-7.5/14:30-16:00,Tue6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	MEC2036	02	3	Adventure Design	This course is concerned with the engineering design procedure and the study of effects of the engineering design on modern technical society. Also, this course provides the opportunity of conceiving the job prospective, ethics and continuous learning.	Seoul	Mon6.5-7.5/14:30-16:00,Tue6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	MEC4066	01	3	Sensor and Measurements	Basic theories of sensors and measurements are introduced. Students learn about theories of error analysis and data processing theory The application of sensors and actuators to the control of rpbot systems is also introduced. The application of LabVIEW packages is also discussed.	Seoul	Mon6.5-7.5/14:30-16:00,Tue6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	MEC4073	01	3	Robot Dynamics	Based on theoretical understanding of 3-axis robot system, the course deals with skills for dynamics of robot arms including robot actuators connected to various types of links and joints.	Seoul	Mon6.5-7.5/14:30-16:00,Wed6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	MEC4080	01	4	Capstone Design Track-Project	Students develop the ability of problem-solving techniques of real product design and experience working in teams to carry out their own project for practical world.	Seoul	Wed8.0-14.5/16:00-22:20
2021	Spring	Undergraduate	English	College of Engineering	MEC4080	02	4	Capstone Design Track-Project	Students develop the ability of problem-solving techniques of real product design and experience working in teams to carry out their own project for practical world.	Seoul	Wed8.0-14.5/16:00-22:20
2021	Spring	Undergraduate	English	College of Engineering	MEC4080	03	4	Capstone Design Track-Project	Students develop the ability of problem-solving techniques of real product design and experience working in teams to carry out their own project for practical world.	Seoul	Wed8.0-14.5/16:00-22:20
2021	Spring	Undergraduate	English	College of Engineering	MEC4088	01	3	Robotics	The purpose of this course is to introduce you to basics of modeling, design, planning, and control of robot systems. Under the constraints of location, speed, acceleration, etc., the trajectory of the robot is generated and the force and motion of the robot operation are controlled, and practicing to make and control a simple robot.	Seoul	Tue8.0-9.0/16:00-17:30,Thu6.5-7.5/14:30-16:00
2021	Spring	Undergraduate	English	College of Engineering	MEC4095	01	3	Fundamentals of Engineering Materials	This course is introductory course of material engineering. Disasters in real world often caused by the misselection of materials. Also, clever use of materials can lead to innovation in certain applications. The objective of this course is for student to learn how to select proper materials which can best fits in the design aspect.	Seoul	Wed6.5-7.5/14:30-16:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4027	01	3	Macro-Organization Theory	This course is designed to offer knowledge about organizational theories in terms of macro-level. In this course, students explore concepts and principles associated with organizational design and structures. The topics are organizational change management, organizational learning, innovation management, and organizational cultures.	Seoul	Wed1.0-2.0/09:00-10:30,Fri1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4027	02	3	Macro-Organization Theory	This course is designed to offer knowledge about organizational theories in terms of macro-level. In this course, students explore concepts and principles associated with organizational design and structures. The topics are organizational change management, organizational learning, innovation management, and organizational cultures.	Seoul	Tue1.0-2.0/09:00-10:30,Thu1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4033	01	3	Financial Markets and Institutions	This course covers a variety of financial ,markets and institutions. Though the course's first goal is to introduce types and functions of financial markets and institutions, the course also explains the differences between them and the why of intermediation, etc. Understanding, instead of simple knowledge, of the basic principles about financial markets and institutions will help the students prepare for the inescapable volatility of the future, since the functional	Seoul	Mon1.0-2.0/09:00-10:30,Wed1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4049	01	3	Business Strategy	The objective of this course is to make students to have integrated and strategic perspectives about management of organizations. Through lectures, case study, class discussions, and exercises, students develop abilities to analyze market trends and business environments and to make strategic alternatives. Therefore, this strategy management course encourages students to apply principles and theories learned from	Seoul	Tue1.0-2.0/09:00-10:30,Thu1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4068	01	3	New Product Development and Pricing Strategy	The course places emphasis on developing specific marketing strategies to support the creation and launch of new products and to successfully manage new products for long-term success. Specifically, this course addresses the following questions. How to manage the entire new product development process, how can the voice-of-the-customer be "heard" and then "translated" into actual product, and how can product design be used to enhance	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4068	02	3	New Product Development and Pricing Strategy	The course places emphasis on developing specific marketing strategies to support the creation and launch of new products and to successfully manage new products for long-term success. Specifically, this course addresses the following questions. How to manage the entire new product development process, how can the voice-of-the-customer be "heard" and then "translated" into actual product, and how can product design be used to enhance	Seoul	Tue7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4073	01	3	Service Marketing(NCS)	This course has two main objectives. First, the course examines how service organizations differ from goods organizations in terms of the development and execution of marketing plans. Secondly, goods organizations need to acknowledge the service aspects of their organizations and how service can be used as a source of competitive advantage. The focus will be on identifying the various components of the service marketing mix and	Seoul	Tue1.0-2.0/09:00-10:30,Thu1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4073	02	3	Service Marketing(NCS)	This course has two main objectives. First, the course examines how service organizations differ from goods organizations in terms of the development and execution of marketing plans. Secondly, goods organizations need to acknowledge the service aspects of their organizations and how service can be used as a source of competitive advantage. The focus will be on identifying the various components of the service marketing mix and	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4075	01	3	Marketing Research(NCS)	The course is designed to explore how to develop successful market research studies. The followings are examined, in particular: the setting of marketing research objectives, the design of marketing research techniques, data collection and interpretation methods, and the preparation and presentation of research reports.	Seoul	Tue5.5-6.5/13:30-15:00,Tue7.0-8.0/15:00-16:30,Thu5.5-6.5/13:30-15:00,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	Dongguk Business School	MGT4075	02	3	Marketing Research(NCS)	The course is designed to explore how to develop successful market research studies. The followings are examined, in particular: the setting of marketing research objectives, the design of marketing research techniques, data collection and interpretation methods, and the preparation and presentation of research reports.	Seoul	Wed1.0-2.0/09:00-10:30,Wed2.5-3.5/10:30-12:00,Fri1.0-2.0/09:00-10:30,Fri2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of ARTs	MIX4001	01	3	Interactive Media Production	The course explores the interactive media production through theory and practice. Students will study various interactive approaches and methods. The main emphasis of the course will be on the interactive productions of visual arts.	Seoul	Wed6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Engineering	MME2042	01	3	Multimedia Data Structures	The course covers several structures of organizing various kinds of data, and the use of such structures for applications. It basically deals with linear lists including stack, queue, trees including general trees and binary trees with binary search tree. It also includes priority queue and graph structures. It covers primitive operations for the structures by programming skills and their implementation techniques.	Seoul	Mon5.0-6.0/13:00-14:30,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Engineering	MME2051	01	3	Autonomous Object Programming	Python is a high level programming language. Python places importance on code readability and provides clear programmable structures on large and small scales. In this course, students learn the python programming techniques to control robots and drones.	Seoul	Mon5.5-6.5/13:30-15:00,Mon7.0-8.0/15:00-16:30,Thu5.5-6.5/13:30-15:00,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Engineering	MME4115	01	3	Robot Vision System	This lecture teaches how to acquire meaningful information from a given image based on the understanding of image processing and machine learning which are the core technologies of the 4th Industrial Revolution. In addition, students learn the methods for extracting and matching feature points from a given image, which is the core technology of vision application. Students also acquire the ability to develop robot vision applications	Seoul	Wed2.5-3.5/10:30-12:00,Thu1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Engineering	MME4119	01	3	Digital Signal Processing	In this course, students will learn how to express digital signals and how to describe digital systems, and develop the ability to design digital filters. Also, students will learn the Fourier transform and its application method to understand the frequency characteristics of digital signals.	Seoul	Wed7.0-8.0/15:00-16:30,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Social Sciences	NOR4023	01	3	Seminar on the Transformation of North Korean System	Analyzes the possibilities and mechanism of North Korean system transformation. There will be presentations of students concerning unification discourses and policy.	Seoul	Thu7.0-9.5/15:00-18:00
2021	Spring	Undergraduate	English	College of Arts	PAI2015	01	2	Fundamental Painting 1	Studio work introduces the student to the domain of painting through the basic elements of form, color, technique, and also the fundamental conceptual of painting.	Seoul	Thu2.0-4.5/10:00-13:00
2021	Spring	Undergraduate	English	College of Humanities	PHI2035	01	3	Logic	This examines the fallacies in logical arguments often occurred in ordinary and academic life, so this proceeds to illuminate the necessity of deductive reasoning and its structure. Then, this lightens up the true meaning of logic while being awakened to the necessity of logical thinking by looking closely into the potential limitation of deductive inference.	Seoul	Fri1.0-3.5/09:00-12:00
2021	Spring	Undergraduate	English	College of Humanities	PHI2051	01	3	Science, Philosophy, and Religion in the Age of AI	This course will cover the philosophical issues that emerge out of the development of current and future AI systems. It is divided into three topics: (1) Science related AI (2) Philosophical problems in AI (3) Religious problems raised by AI. It will ask these questions: what philosophical questions are raised or answered by the successes and failures of AI?, Can AI learn or understand about a religion?	Seoul	Fri4.0-6.5/12:00-15:00
2021	Spring	Undergraduate	English	College of Humanities	PHI4072	01	3	Analytic Philosophy	This course will provide a detailed study of the origins and development of analytical philosophy, and its contemporary philosophical significance. The problems of meaning and reference are investigated in this course. Semantics, included in logical atomism, logical positivism, ordinary language analysis and behaviorism, is inquired in relation to name, description, propositional attitude, reference, and so on.	Seoul	Tue1.0-2.0/09:00-10:30,Thu1.0-2.0/09:00-10:30

2021	Spring	Undergraduate	English	College of Humanities	PHI4073	01	3	German Classical Philosophy	German idealism, which is originated from transcendental idealism called by Kant himself, prosperously developed with the efforts and thoughts of Fichte, Schellin, and Hegel. This course looks closely into the development in their theories.	Seoul	Tue5.5-6.5/13:30-15:00,Thu5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY2002	01	3	Mechanics 1	To understand the fundamentals of Mechanics we study Newton's law, oscillations, gravitation, and nonlinear phenomena.	Seoul	Mon7.5-8.5/15:30-17:00,Wed7.5-8.5/15:30-17:00
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4007	01	3	Quantum Physics I	With basic concepts of quantum theory, system/structures of quantum mechanics(QM), and methodology to QM, real physical phenomena will be studied in the view of atomic structures, electromagnetic wave, and atomic interactions.	Seoul	Tue4.5-5.5/12:30-14:00,Thu4.5-5.5/12:30-14:00
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4011	01	3	Nuclear Physics I	·Some basics of nuclear physics ·Nuclear shell model ·Radiativity, liquid drop model	Seoul	Mon9.0-10.0/17:00-18:25,Wed9.0-10.0/17:00-18:25
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4014	01	3	Solid State Physics I	Students will study on the structure of crystal,reciprocal lattice, diffraction of crystal, binding of crystal, phonon I (Lattice vibration) and phonon II(thermal properties) and so on.	Seoul	Tue6.0-7.0/14:00-15:30,Thu6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4031	01	2	High Technology of Physics	New topics with applications of physics for technology (e.g. display, energy, solar cell, etc)are studied by student by himself with discussion.	Seoul	Wed10.5-12.0/18:25-20:05
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4037	01	3	Applied Physics	The purpose of this course is for senior students to understand basic characteristics, operation, limitations of semiconductor devices. The students should understand existing electronic circuits and systems and develop the basic tools with which they can later learn about newly developed devices and applications. The topics are crystal structure of solids, quantum theory of solids, semiconductor material physics, transport phenomena, and	Seoul	Mon6.0-7.0/14:00-15:30,Wed3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4041	01	3	Electromagnetism 1	This subject handles the basic laws of electromagnetic interaction summarized as Coulomb's law and Biot-Savart Law which can be re-written in differential equations in the form of Gauss' law and Ampere's law. Vector algebra and vector calculus are introduced in order to describe the physical quantities as vector functions in three dimensional space. Solutions of Laplace equation and the concept of dielectric constant are explained.	Seoul	Mon2.0-3.0/10:00-11:30,Wed1.5-2.5/09:30-11:00
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4043	01	3	Thermal & Statistical Physics 1	The subject of the course includes fundamental principles and simple applications of thermodynamics and statistical mechanics of matter in equilibrium and non-equilibrium. This course covers distribution function, equation of state, First and second laws of thermodynamics, concept of entropy, thermodynamic relations, and applications.	Seoul	Tue3.0-4.0/11:00-12:30,Thu3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	College of Natural Sciences	PHY4044	01	2	Computational Physics	The Lecture of Computational Physics is to provide programming languages for computers, such as Python and Matlab for theoretical calculations, as well as Labview and Origin for experimental physics. The lecture will open for comprehensive understanding of natures in order to design and perform the theories and experiments in depth.	Seoul	Mon4.0-5.5/12:00-14:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY2004	01	3	Advanced Organic Chemistry	Overview of general organic reactions for understanding of structure, structure-activity relationships, and molecular level mechanism of drugs.	Ilsan	Wed7.0-8.0/15:00-16:30,Fri5.0-6.0/13:00-14:30
2021	Spring	Undergraduate	English	College of Pharmacy	PMY2023	01	3	Pharmaceutical Biochemistry	Study the synthesis, degradation, function and interaction of various genes and proteins, and the role of lipids and carbohydrates in vivo. Learn how they interact with genes and proteins to cause various changes in our body, and apply them to new concept drug development technologies.	Ilsan	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4012	01	2	English for Pharmaceutical Science	Lecture deals with the medical terminology in English that are used in pharmaceutical fields.	Ilsan	Tue5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4025	01	2	Protein Biochemistry	This course will provide students with understanding of fundamental components in life, such as functions of protein, carbohydrates and lipids, together with neurotransmission and cellular signal transduction.	Ilsan	Mon7.0-8.5/15:00-17:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4029	01	3	Pharmacogenomics	In this course, students will learn and understand the basic concepts of pharmacogenomics, which is a new scientific discipline that investigates the gene expression change profiles in response to drug treatment and apply the acquired knowledge to develop and provide rational means to optimize drug therapy, with respect to the patients genotype, to ensure maximum efficacy with minimal adverse effects.	Ilsan	Mon7.0-8.0/15:00-16:30,Wed7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4030	01	3	Pharmacotherapy1	This course will cover systematic acquisition of comprehensive expert knowledge on clinical diagnosis and treatment of disease and pharmacotherapy to cultivate adequate prescription review ability, prevent pharmaceutical accidents by examining appropriateness of medication use, and develop patient counseling skills.	Ilsan	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4074	01	2	Clinical Pharmacokinetics	This lecture covers how apply the pharmacokinetic concepts to dosage regimens in practice.	Ilsan	Tue5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4086	01	2	Cancer Biology	Study characteristics of cancer cells, differences from normal cells, causes of cancer, biochemical understanding of the carcinogenesis process, and function of tumor genes and carcinosarcoma genes.	Ilsan	Fri5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4097	01	2	Synthetic Pharmaceutical Chemistry 2	This course aims to cultivate general knowledge on the unit reactions of advanced organic chemistry required for the research and development of new drugs. Students will acquire knowledge on synthetic methods of pharmaceuticals and structure-activity relations of drugs.	Ilsan	Mon5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4098	01	3	Pharmaceutical Molecular Biology	In the molecular biology class, following subjects will be studied. 1) The structure and function of DNA and RNA, 2) Detailed process of transcription and its regulatory mechanism, Experimental techniques in molecular biology and their application.	Ilsan	Tue1.0-2.0/09:00-10:30,Wed1.0-2.0/09:00-10:30
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4100	01	2	Pharmacology for Small Animals	Learn about the types of drugs, mechanism of action, side effects, and their usage in the care and treatment of small animals including livestock, poultry and companion animals.	Ilsan	Thu5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Pharmacy	PMY4101	01	2	Pharmaceutical cell biology	This course is aimed at learning the basic principle of cellular processes and its application to the development of new medications.	Ilsan	Fri5.0-6.5/13:00-15:00
2021	Spring	Undergraduate	English	College of Social Sciences	POL4044	01	3	Russian and post-Communist Politics	This course begins by examining the collapse of communism in Eastern Europe and the Soviet Union. The course considers how reforms which were introduced (by Mikhail Gorbachev) to strengthen the Soviet Union led instead to its collapse. We then study Russia as an example of political developments in post-communist states. We examine Russia's struggle in the 1990s to develop a democratic polity and a functioning market	Seoul	Tue7.5-8.5/15:30-17:00,Thu7.5-8.5/15:30-17:00
2021	Spring	Undergraduate	English	College of Social Sciences	POL4057	01	3	Korean Politics(Capstone Design)	This course offers students a theoretical basis to help them understand Korean politics. Topics include political culture, political socialization, how elections work, government institute, interest group, political parties, parliament, policy-making, political process, political development, unification of North and South, security, international environment, etc.	Seoul	Wed10.0-11.0/18:00-19:15,Fri10.0-11.0/18:00-19:15
2021	Spring	Undergraduate	English	College of Social Sciences	POL4080	01	3	Foreign Policy and International Relations	This course examines general theories regarding the nature of diplomacy, historical changes of foreign policies, critical factors and decision-making processes in foreign policy, and analyzes foreign policies of strong states and weak states.	Seoul	Tue6.0-7.0/14:00-15:30,Thu6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	College of Social Sciences	POL4081	01	3	Academic Writing for Political Science	This course discusses about academic writing for political science, and provides opportunities to write a short research paper for students, based on problem-based learning.	Seoul	Thu4.0-6.5/12:00-15:00
2021	Spring	Undergraduate	English	College of Humanities	PRI5001	01	3	English Composition	Writing is a means for thinking, a method of developing ideas and of fleshing out arguments. Recent research in writing suggests that students write more freely and creatively when their writing emerges gradually from a number of sources of insight such as reading material, class discussions, and a teacher's individual attention.	Seoul	Tue6.0-7.0/14:00-15:30,Fri6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	General Education	PRI5016	01	3	Academic Reading and Discussion	Not available yet	Seoul	Mon4.0-5.0/12:00-13:30,Wed3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	General Education	PRI5016	02	3	Academic Reading and Discussion	Not available yet	Seoul	Mon8.5-9.5/16:30-18:00,Wed6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	General Education	PRI5017	01	3	Academic Listening and Discussion	In this class, the students will listen to movie reviews, movie clips, interviews with famous people, podcasts, TEDTalks, and other listening activities. The students will then use groups (e.g. Breakout rooms) to discuss the topic and, as a team, produce a meaningful task connected to topic. There will also be a project about listening and discussion.	Seoul	Tue8.0-9.0/16:00-17:30,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	General Education	PRI5017	02	3	Academic Listening and Discussion	In this class, the students will listen to movie reviews, movie clips, interviews with famous people, podcasts, TEDTalks, and other listening activities. The students will then use groups (e.g. Breakout rooms) to discuss the topic and, as a team, produce a meaningful task connected to topic. There will also be a project about listening and discussion.	Seoul	Wed8.0-9.0/16:00-17:30,Fri8.0-9.0/16:00-17:30
2021	Spring	Undergraduate	English	General Education	PRI5073	01	3	Current Issues and Discussion	In this course students will learn language skills for effective discussion and debate through a variety of topics including; politics, economics, environmental and social issues. Students will get chance to improve their reading comprehension skills and discuss their opinions orally, in an effective, coherent and organized way.	Seoul	Tue6.0-7.0/14:00-15:30,Fri6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	General Education	PRI5073	02	3	Current Issues and Discussion	In this course students will learn language skills for effective discussion and debate through a variety of topics including; politics, economics, environmental and social issues. Students will get chance to improve their reading comprehension skills and discuss their opinions orally, in an effective, coherent and organized way.	Seoul	Mon7.0-8.0/15:00-16:30,Thu7.0-8.0/15:00-16:30

2021	Spring	Undergraduate	English	General Education	PRI5074	01	3	English through Films	Improve all aspects of English using different films. Focus on speaking, listening and reading. New vocabulary will be introduced every week.	Seoul	Mon8.5-9.5/16:30-18:00,Wed6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	General Education	PRI5074	02	3	English through Films	Improve all aspects of English using different films. Focus on speaking, listening and reading. New vocabulary will be introduced every week.	Seoul	Mon4.0-5.0/12:00-13:30,Wed3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	General Education	PRI5075	01	3	Academic Writing	Students will build competence in writing paragraphs.Students will gain confidence in writing well-structured essays.	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	General Education	PRI5075	02	3	Academic Writing	Students will build competence in writing paragraphs.Students will gain confidence in writing well-structured essays.	Seoul	Tue8.0-9.0/16:00-17:30,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	General Education	PRI5076	01	3	Business Writing	This class will expose students to the various forms of written communication that is done in the business world. Although this class is a writing class, students will have the opportunity to discuss in English the good and bad points of the different types of business writing.	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	General Education	PRI5076	02	3	Business Writing	This class will expose students to the various forms of written communication that is done in the business world. Although this class is a writing class, students will have the opportunity to discuss in English the good and bad points of the different types of business writing.	Seoul	Tue6.0-7.0/14:00-15:30,Fri6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	College of Humanities	PRI5079	01	3	English Conversation 3	1. To improve students' command of spoken English, by providing frequent opportunities for discussion. 2. To build on students' vocabulary and increase their range of expression. 3. To review and practice necessary grammar structures. 4. To improve students' listening skills so that they can understand a wide range of spoken	Seoul	Mon8.5-9.5/16:30-18:00,Wed6.0-7.0/14:00-15:30
2021	Spring	Undergraduate	English	College of Humanities	PRI5079	02	3	English Conversation 3	1. To improve students' command of spoken English, by providing frequent opportunities for discussion. 2. To build on students' vocabulary and increase their range of expression. 3. To review and practice necessary grammar structures. 4. To improve students' listening skills so that they can understand a wide range of spoken	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Humanities	PRI5079	03	3	English Conversation 3	1. To improve students' command of spoken English, by providing frequent opportunities for discussion. 2. To build on students' vocabulary and increase their range of expression. 3. To review and practice necessary grammar structures. 4. To improve students' listening skills so that they can understand a wide range of spoken	Seoul	Wed8.0-9.0/16:00-17:30,Fri8.0-9.0/16:00-17:30
2021	Spring	Undergraduate	English	College of Humanities	PRI5097	01	3	OPIc	This course will provide the practical sense and english speaking and listening. Especially, this course is specialized for the students who are the preparing for Employment. The objective of this course is to improve the verbal communication skills. Also, it is for helping the students to gain confidence and a test of proficiency in English.	Seoul	Mon4.0-5.0/12:00-13:30,Wed3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	College of Humanities	PRI5097	02	3	OPIc	This course will provide the practical sense and english speaking and listening. Especially, this course is specialized for the students who are the preparing for Employment. The objective of this course is to improve the verbal communication skills. Also, it is for helping the students to gain confidence and a test of proficiency in English.	Seoul	Tue4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Social Sciences	PUB2001	01	3	Introduction to Policy Science	Empirical and normative foundations of systematic policy science; concepts, theories, models, issues, strengths, limitations, and uses and misuses in the policy process.	Seoul	Tue5.5-6.5/13:30-15:00,Thu7.0-8.0/15:00-16:30
2021	Spring	Undergraduate	English	College of Social Sciences	PUB2006	01	3	Research Methods for Public Administration	This course covers introduction to the philosophy of science and scientific method; logical forms of problem analysis; deductive logic; especially, basic logical forms and fallacies; theory construction and hypothesis formulation; definition and classification.	Seoul	Mon2.5-3.5/10:30-12:00,Thu8.5-9.5/16:30-18:00
2021	Spring	Undergraduate	English	College of Social Sciences	PUB4025	01	3	Market, Government, and Network	The course understand alternative governance models of interaction in respect to administration as governance and introduce alternative governance models of administrative strategy.	Seoul	Mon5.5-6.5/13:30-15:00,Wed5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Social Sciences	PUB4030	01	3	Government and Administration in Korea	The goal of this course is to provide students with a basic understanding of government, policy and administration in Korea. This course is designed to help students develop their analytical ability to critically examine public administration.	Seoul	Tue8.5-9.5/16:30-18:00,Fri2.0-3.0/10:00-11:30
2021	Spring	Undergraduate	English	College of Social Sciences	PUB4050	01	3	Nonprofit Organization and Social Participation	This course is an introductory course designed to introduce students to the theory and practice of nonprofit organization and social participation. Topics include the development of the nonprofit sector, its role in national economy compared to the public and the for-profit sectors, and the contemporary issues regarding the sector's functions and identity.	Seoul	Mon4.0-5.0/12:00-13:30,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Social Sciences	PUB4053	01	3	Public Organization & AI	This course deals with a variety of topics and theories in the field of organization. It includes bureaucracy, new institutionalism, contingency theory, decision-making theories, and leadership. Characteristics of public organizations are also discussed. In particular, this course is intended to help students understand the development of artificial intelligence in the sector of public organizations.	Seoul	Mon8.5-9.5/16:30-18:00,Fri3.5-4.5/11:30-13:00
2021	Spring	Undergraduate	English	General Education	RGC1080	01	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	02	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	03	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	04	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	05	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	06	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Thu2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	07	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Thu2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	08	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Thu2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	09	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Thu2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	10	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Thu2.0-3.5/10:00-12:00
2021	Spring	Undergraduate	English	General Education	RGC1080	100	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon4.0-5.5/12:00-14:00
2021	Spring	Undergraduate	English	General Education	RGC1080	101	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon4.0-5.5/12:00-14:00
2021	Spring	Undergraduate	English	General Education	RGC1080	102	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Wed3.0-4.5/11:00-13:00
2021	Spring	Undergraduate	English	General Education	RGC1080	103	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Wed3.0-4.5/11:00-13:00
2021	Spring	Undergraduate	English	General Education	RGC1080	104	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Wed3.0-4.5/11:00-13:00
2021	Spring	Undergraduate	English	General Education	RGC1080	105	2	English for Academic Success1	The course focuses on developing the specific skills required for academic studies and exploring strategies for success in academic learning. It also offers guidance in key study areas and provides plenty of practice to encourage learner independence	Seoul	Mon5.5-7.0/13:30-15:30

2021	Spring	Undergraduate	English	College of Natural Sciences	SEM4004	01	3	Semiconductor Devices and Lab 1	The study on physical properties of PN junctions bipolar junction transistors, and metal-semiconductor contact structures including experiments.	Seoul	Tue8.5-10.0/16:30-18:25,Thu6.5-8.0/14:30-16:30
2021	Spring	Undergraduate	English	College of Natural Sciences	SEM4065	01	3	Photonic Devices	The study on optoelectronic devices regarding on eco-friendly semiconductor optical devices like as white light emitting diode, laser diode, photo diode, and photovoltaic devices through the understanding of optical absorption and emission in semiconductors.	Seoul	Tue3.0-4.0/11:00-12:30,Thu3.0-4.0/11:00-12:30
2021	Spring	Undergraduate	English	College of Natural Sciences	SEM4068	01	3	Design of Mixed Mode System	Recently, most of the semiconductor chips are composed of both a digital circuit and an analog circuit. Thus we have to study a mixed-mode system design. In this lecture, a phase locked loop(PLL), a sigma-delta circuit, a mixed-mode filter, and power management integrated circuit (PMIC) are discussed. Further, their applications are also studied.	Seoul	Mon5.5-6.5/13:30-15:00,Wed4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Natural Sciences	SEM4070	01	3	Semiconductor Thin Film Technology	The growing mechanism of semiconductor and new functional material will be discussed in the lecture. The growing mechanism and the properties of the thin films are explained with physical models and their results can be applied to the new developments in the semiconductor industry. This lecture is the important curriculum subject for the understanding of semiconductor material, electronics and semiconductor devices.	Seoul	Wed5.5-6.5/13:30-15:00,Fri5.5-6.5/13:30-15:00
2021	Spring	Undergraduate	English	College of Social Sciences	SOC4017	01	3	Fertility and Family Dynamics	Understanding family change and family diversity is essential for explaining fertility change. This course discusses topics related to the family and fertility dynamics. Students will learn how to analyze and interpret family issues using relevant concepts and theories. Students will also discuss fertility and reproductive behaviors in diverse families as well as trends and issues surrounding contemporary families, such as romantic relationships, marriage.	Seoul	Mon4.0-5.0/12:00-13:30,Thu4.0-5.0/12:00-13:30
2021	Spring	Undergraduate	English	College of Social Sciences	SOC4018	01	3	Social Data Analysis and Visualization	This course introduces students to data analysis and visualization. This course is based on real world examples focused on handling, analyzing and visualizing complex data. Students will deal with hands-on work with Excel and R programming language.	Seoul	Thu7.0-9.5/15:00-18:00
2021	Spring	Undergraduate	English	College of Social Sciences	SOW2030	01	3	Introduction to Social Welfare	It aims at understanding the status and prospect of Social Welfare through introducing the concept, methodology and division of Social Welfare and through examining the history and thought of Social Welfare.	Seoul	Tue4.5-5.5/12:30-14:00,Thu4.5-5.5/12:30-14:00
2021	Spring	Undergraduate	English	College of Social Sciences	SSC2004	01	3	Introduction to Public Administration	From the former Public Administration studies, we will take controversial themes, concentrate on their research, analyze and discuss which in forth will help in organizing all the previous studies. The future of public administration studies and the present state of Korean public administration studies are the major subjects of this course.	Seoul	Tue2.5-3.5/10:30-12:00,Thu2.5-3.5/10:30-12:00
2021	Spring	Undergraduate	English	College of Natural Sciences	STA2017	01	3	Mathematical Statistics I	Histograms. Descriptive statistics. Probability. Probability spaces. Fundamental theorems in discrete probability. Random variables; densities and distribution functions. Continuous distributions. Independence. Distribution functions. Transformations of random variables. Central limit theorem. Distributions of sample statistics. Generating functions. Convergence concepts. Limit theorems.	Seoul	Mon5.5-6.5/13:30-15:00,Wed1.5-2.5/09:30-11:00
2021	Spring	Undergraduate	English	College of Natural Sciences	STA2017	02	3	Mathematical Statistics I	Histograms. Descriptive statistics. Probability. Probability spaces. Fundamental theorems in discrete probability. Random variables; densities and distribution functions. Continuous distributions. Independence. Distribution functions. Transformations of random variables. Central limit theorem. Distributions of sample statistics. Generating functions. Convergence concepts. Limit theorems.	Seoul	Mon7.0-8.0/15:00-16:30,Wed9.0-10.0/17:00-18:25
2021	Spring	Undergraduate	English	College of Natural Sciences	STA4034	01	3	Regression Analysis	Regression models are considered to identify any relation between two variables. Regression analysis course introduces estimations and tests for regression coefficients, lack-of-fit test, analysis of variances and so on.	Seoul	Tue7.5-8.5/15:30-17:00,Thu9.0-10.0/17:00-18:25
2021	Spring	Undergraduate	English	College of Natural Sciences	STA4034	02	3	Regression Analysis	Regression models are considered to identify any relation between two variables. Regression analysis course introduces estimations and tests for regression coefficients, lack-of-fit test, analysis of variances and so on.	Seoul	Tue9.0-10.0/17:00-18:25,Thu7.5-8.5/15:30-17:00
2021	Spring	Undergraduate	English	College of Arts	THE2029	02	2	Musical Vocal Training 1(Basic Level 1)	Introduce singing technique of Musical Theatre Songs through practical application; focus on basic theory of vocalization(breathing and resonance etc.) and sight singing.	Seoul	Fri2.0-4.5/10:00-13:00
2021	Spring	Undergraduate	English	College of Arts	THE2031	02	2	Musical Vocal Training 3(Intermediate Level 3)	This course helps students to learn in order to improve the duet singing skill; focus on musical song analysis and a specific repertoire of Musical duet songs.	Seoul	Fri6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Arts	THE2036	01	3	Directing1(Adventure Design)	This course covers the principles of stage directing, such as play selection, design, casting, staging and conceptualization.	Seoul	Mon6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Arts	THE4004	01	3	Acting5	It concentrates on working and investigating many different acting styles in period plays from Ancient Greece to the 21th Century.	Seoul	Tue6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Arts	THE4010	02	2	Musical Vocal training 5(Advanced Level 5)	Students study the advanced musical singing skills for Musical audition technique such as the methods of presentation of musical solo songs.	Seoul	Wed6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Arts	THE4018	01	3	Production Design & Technology1	Study of the theatrical design and technical aspects of play production including set, lighting, sound, costume, and makeup.	Seoul	Tue6.0-8.5/14:00-17:00
2021	Spring	Undergraduate	English	College of Arts	THE4024	01	3	Musical Production1(Capstone Design)	It offers the opportunity to investigate and develop the roles of each one in the musical production. This course premises the performance at the end of the semester.	Seoul	Thu2.0-4.5/10:00-13:00,Thu6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	AIX7037	01	3	Introduction to Artificial Intelligence	In artificial intelligence area, intelligent machines that think and act like people are being studied. Based on the structure and working principle of the human brain and mind, artificial intelligence technology requires interdisciplinary research in humanities, natural sciences, and engineering. By overcoming the limitations of classical rule-based programming and transitioning to a modern data-driven deep-learning approach, artificial intelligence has	Seoul	Mon2.5-3.5/10:30-12:00,Wed2.5-3.5/10:30-12:00
2021	Spring	Graduate	English	Graduate School	AUT7017	01	3	Machine Learning Design I	In this subject the recent technology of machine learning is reviewed, which has become a hot issue. Through this, we analyze the trends of machine learning technology and study related papers. In particular, one of a variety of machine learning algorithms such as DQN will be analyzed intensively by selecting and reviewing a topic for each semester. By the results of the seminar, we predict future machine learning technologies.	Seoul	Wed5.5-8.0/13:30-16:30
2021	Spring	Graduate	English	Graduate School	BES6004	01	3	Natural Environment Conservation	This course covers the major areas of conservation of biological diversity, proliferation of rare and endangered species and introduction of high valued exotic species. The course explains how to protect endemic species out of countries. Emphasis is on global issues on conservation of biological diversity and sustainable use on global deliberation and intervention. The course is addressed to acquire how to preserve and conserve natural	Ilсан	Wed1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	BES6019	01	3	Preparation of Environmental Experiments and Dissertation	This course covers the basic ways and means to prepare environmental experiments and make a dissertation with relevant data for Mater's candidate.	Ilсан	Thu5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	BIO6008	01	3	Immunology	The class will discuss biochemical and molecular mechanisms involved in immune responses. Role of major proteins and cells involved in immune system will be lectured. The complex immune network coordinated in an efficient manner will be discussed. The class will provide further understanding of various medical problems related with a disorder in the immune system.	Ilсан	Thu5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	BIO6040	01	3	Data analysis and interpretation for clinical genomics	In this course, overview of diagnostic tests and quality aspects, products, services and technical background whole exome sequencing, whole genome sequencing, and whole transcriptome sequencing. Analysis pipeline will be also covered.	Ilсан	Wed11.0-13.5/19:00-22:00
2021	Spring	Graduate	English	Graduate School	BIO8045	01	3	Research writing in English	This course is aimed to learn how to write science research writing in English. The course teaches the common mistakes made by non-native speakers of English and the differences between Korean and English science writing styles.	Ilсан	Mon7.0-9.5/15:00-18:00
2021	Spring	Graduate	English	Graduate School	BME7015	01	3	Advanced Stem Cell Biology 1	This course will cover a broad range of topics relevant to stem cell biology. The course will cover the following concepts and themes: pluripotency and reprogramming, pluripotent cell types, organ systems, stem cells and cancer, therapeutics and ethics.	Ilсан	Tue6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	BME7097	01	3	Advanced Electrical Circuit for Biomedical Engineering	Learn about electronic circuits for biomedical engineering. Identify the electrical, electronic and physicochemical characteristics of the device which is basic element of electrical circuit for application to the circuit.	Ilсан	Thu7.5-10.0/15:30-18:30
2021	Spring	Graduate	English	Graduate School	BME7098	01	3	Advanced Digital Circuit Design	This course develops application skills by learning digital circuit design theory necessary for medical device development and performing various projects through dedicated programming languages.	Ilсан	Mon7.5-10.0/15:30-18:30
2021	Spring	Graduate	English	Graduate School	CSE7130	01	3	Bioinformatics1	With the advance of high throughput technologies, huge amount of biological data are being produced everyday. Computational technologies are essential in analyzing these bio-big data. In this lecture, we will learn the applications of bio big data analysis algorithms and software in the real data.	Seoul	Mon9.0-11.5/17:00-20:00
2021	Spring	Graduate	English	Graduate School	EME7010	01	3	Special Topics in Applied Chemistry	This course will cover the fundamentals of contemporary applied chemical sciences with an emphasis on the state-of-the art technology in the chemical analysis and interpretations. It includes the synthesis and characteristics of the various type of nano materials and their applications in both theoretical and experimental approaches.	Seoul	Thu1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	EME7053	01	3	Seminar for Advanced Materials 2	This class introduce the most popular materials and application area for graduate students. The prospect for each area will be also given.	Seoul	Wed9.0-11.5/17:00-20:00
2021	Spring	Graduate	English	Graduate School	ENE7027	01	3	Information and Signal Theory	Analysis of information, Noise, Coding theory, Channel capacity, Representation of source, Characteristics of signals and transform systems, Orthogonal signal sets	Seoul	Mon3.0-5.5/11:00-14:00

2021	Spring	Graduate	English	Graduate School	ENE7033	01	3	Neural Network Theory and Applications	This deals with multi-layer perceptron, Hopfield network, Kohonen network, ART network based on basic theory, and training method of neural network, and analyze the application of each neural network.	Seoul	Thu5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	ENE7040	01	3	Discrete Control System	This deals with the design and analysis of distributed control system, and covers additional topics such as measurement device, control device, communication method of between Host computer and PC, between PC and PLC, and integrated automatic control system.	Seoul	Wed6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	ENE7052	01	3	Applications of Artificial Intelligence	This deals with the hybrid intelligent method to improve reciprocal problems by using the various intelligent type of fuzzy, neural network, genetic algorithm, and apply them to many fields.	Seoul	Tue5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	ENE7116	01	3	Multimedia Communication Systems	This course covers topics relating to multimedia communication system.	Seoul	Tue6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	ENE7124	01	3	Power Quality Improvements	This course covers characterization of power quality, conventional mitigation methods, introduction of custom power devices such as DSTATCOM, DVR and UPQC, and impacts of distributed generation on power quality.	Seoul	Fri8.0-10.5/16:00-19:00
2021	Spring	Graduate	English	Graduate School	ENG6004	01	3	British and American Literary Criticism	This course aims to study the formation of 19th British and American Literary Criticism, the development process of 20th Literary theories and the relevance between modern literary criticisms and cultural studies of the late 20th and 21st. The lecture will focus on the literary texts in which students will be comparing the trans-modern literary criticism to the modern, and producing the productive and creative literary criticisms.	Seoul	Tue5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	FIB7034	01	3	Supply Chain Finance and Blockchain Technology	This course explains a new set of solutions within trade finance implemented by financial institutions, leading corporate buyers, and business partners worldwide known as Supply Chain Finance. In this course, students will learn about how to understand the evolution of trade finance and shift to incorporate supply chain finance, the scope of Supply Chain Finance across the customer segment, an overview of the state of Supply Chain Finance	Seoul	Fri11.0-13.5/19:00-22:00
2021	Spring	Graduate	English	Graduate School	FOO7019	01	3	Lactic Acid Bacteria And Foods	The microbiology, genetics, biochemistry, metabolic regulation, genetic breeding of lactic acid bacteria used in various lactic fermented foods are taught.	Ilsan	Thu9.0-11.5/17:00-20:00
2021	Spring	Graduate	English	Graduate School	FOO7036	01	3	Seminar on Food Science and Biotechnology	This course is designed to improve the oral communication skills and to provide students an opportunity to familiarize and understand state-of-art and research trends of food science and biotechnology.	Ilsan	Tue8.0-10.5/16:00-19:00
2021	Spring	Graduate	English	Graduate School	FOO7038	01	3	Nutrition in the News	This course aims to gain nutritional knowledge by critically reading news articles featuring the latest or landmark research in nutrition.	Ilsan	Wed5.5-8.0/13:30-16:30
2021	Spring	Graduate	English	Graduate School	FOO7039	01	3	Writing scientific articles for food science and biotechnology	This course is to understand scientific articles in the fields of food science and biotechnology and to enhance the writing skills.	Ilsan	Fri2.0-4.5/10:00-13:00
2021	Spring	Graduate	English	Graduate School	GME6003	01	3	Game Artificial Intelligence	The purpose of this course is to provide the students with a comprehensive overview of the entire field of artificial intelligence and its applications area. This course teaches general game artificial intelligence theory and basic AI engine design concepts. For example, FSM, A* algorithm, pathfinding algorithm, mesh navigation, flocking, crowd simulation, fuzzy logic, emotion systems, team AI, and AI for sports, RTS, Simulation are introduced. Also this	Seoul	Tue6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	GME7019	01	3	Computational Photography	This course provides a comprehensive overview of the state-of-the-art in computational photography. We will study modern image processing pipelines, including those encountered on mobile phone and DSLR cameras, and advanced image and video editing algorithms. Then we will discuss active research topics, such as the computational aspects of coded photography, lightfield imaging, time-of-flight imaging, VR/AR displays.	Seoul	Thu2.0-4.5/10:00-13:00
2021	Spring	Graduate	English	Graduate School	GME7023	01	3	Advanced Topics in Display Engineering	This course covers the latest research trends of display technologies. Specifically, students understand, implement and discuss the latest research papers related to display technologies.	Seoul	Mon5.5-8.0/13:30-16:30
2021	Spring	Graduate	English	Graduate School	GME7037	01	3	Deep Learning Design I	In this subject the recent technology of deep learning is reviewed, which has become a hot issue. Through this, we analyze the trends of deep learning technology and study related papers. In particular, one of a variety of deep learning algorithms such as CNN, RNN, GAN, and Autoencoder will be analyzed intensively by selecting and reviewing a topic for each semester. By the results of the seminar, we predict future deep learning technologies.	Seoul	Wed1.5-4.0/09:30-12:30
2021	Spring	Graduate	English	Global MBA	MBA6121	01	1	Ethics	This course is to understand business ethics in a micro and macro business environments.	Seoul	
2021	Spring	Graduate	English	Global MBA	MBA6122	01	2	Econometrics	In this course, we will learn the basic concepts and methods of statistics, and how to use data appropriately when making business decisions.	Seoul	Mon4.5-7.0/12:30-15:30
2021	Spring	Graduate	English	Global MBA	MBA6307	01	3	Decision making with business data analysis	This course focuses on the problem-solving and decision-making processes that use quantitative management science concepts and techniques.	Seoul	Mon1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Global MBA	MBA6916	01	3	Analysis of organizational behavior	This course is aimed at helping students understand how to create, foster, and manage organizations in which people thrive and perform at their best. In every lecture, the instructor will present basic concepts and theories in the organizational behavior (OB) literature. In addition, the instructor will provide students with a real case for a group project to help them experience OB-related issues and creatively find solutions. Preparing group presentation,	Seoul	Mon7.5-10.0/15:30-18:30
2021	Spring	Graduate	English	Global MBA	MBA6918	01	3	Business Persuasion and Negotiation	Students who take BPN: Business Persuasion, Negotiation, & Innovation will develop the critical thinking and communicative skills and understanding to be able to confidently and successfully function in a school or business environment using persuasion, negotiation, and innovation techniques.	Seoul	Wed1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Global MBA	MBA6919	01	3	Investment and Securities	The purpose of this course is to acquaint the student with what will be useful to any player in the investment market, whether a portfolio manager, a corporate financial officer, or a private investor. Topics covered are portfolio theory (including risk and return, capital asset pricing model, and market efficiency), valuation of stocks and bonds, and fund market. This course provides the practical applications by technical analysis and investment simulation	Seoul	Fri1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Global MBA	MBA6920	01	3	Emerging topic on business information technologies	It is about understanding and strategically utilizing the latest business information technology.	Seoul	Wed4.5-7.0/12:30-15:30
2021	Spring	Graduate	English	Global MBA	MBA6921	01	3	Consumer psychology and behavior	In this course, you will learn a wide range of consumer behavior concepts, and explore the strategic implications of consumer behavior for marketers.	Seoul	Fri4.5-7.0/12:30-15:30
2021	Spring	Graduate	English	Global MBA	MBA7023	01	3	Financial Accounting	The purpose of this course is two-fold. First, it is intended to provide the student with basic knowledge regarding the preparation of financial statements that convey information on the firm's performance (Income Statement) and financial position (Statement of Financial Position). Second, the course also provides an introduction to the use of accounting information in making business decisions. These objectives are complementary in that the intelligent use of accounting information in business decisions requires an understanding of how the financial statements are prepared. Hence, the course places considerable emphasis on tracing the effects of transactions from their initial entry into a firm's accounting system through their ultimate impact on the financial statements.	Seoul	Fri7.5-10.0/15:30-18:30
2021	Spring	Graduate	English	Graduate School	PHY7023	01	3	Seminar in Experimental Physics(1)	Seminar for current issue of solid state physics, semiconductor physics, applied physics and optical physics, especially related with experimental physics.	Seoul	Wed8.0-10.5/16:00-19:00
2021	Spring	Graduate	English	Graduate School	PMY7206	01	3	Advanced Techniques in Drug Discovery and Development-2	Students will develop the knowledge of R&D processes for new chemical drug, including lead discovery and optimization process.	Ilsan	Fri1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	PMY7211	01	3	Advanced Medicinal & Process Chemistry 1	To achieve the general knowledge of the unit reactions in advanced organic chemistry for the development of new drugs, the synthetic pathways of pharmaceuticals including the Global Top 100 and their Structure-Activity Relationship (SAR) will be lectured.	Ilsan	Thu5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	PMY7220	01	3	Thesis Research in Advanced Synthetic Biology-2	This course is provided for students in the Master or Ph.D. course majoring medicinal chemistry. Students will be guided to fulfill thesis research for Master or Ph.D. degree in advanced synthetic biology and learn how to write dissertation and research papers.	Ilsan	Wed1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	PMY7401	01	3	Advanced Pharmacology 1	This course is open for students in the Master's or Ph.D. course. Students will learn basic principles of pharmacology and actions, action mechanisms and unwanted side effects of drugs. In addition, students will acquire recent information and research trends through discussion of leading scientific journals in the fields of basic and applied pharmacology.	Ilsan	Wed6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	PMY7411	01	3	Neurotransmitters	This course is provided for students in the Master's or Ph.D. course. Students will learn synthesis, storage, release, distribution, actions and regulations of various types of neurotransmitters. They will also learn current research trends and advanced experimental technology in this field through recent research articles, references, and textbooks.	Ilsan	Thu6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	PMY7417	01	3	Thesis Research in Pharmacogenomics 1	This course is provided for students in the Master or Ph.D. course. Students will be guided to fulfill thesis research for Master or Ph.D. degree in pharmacogenomics and learn how to write dissertation and research papers.	Ilsan	Mon6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	PMY7421	01	3	Methods in Pharmacokinetics I	Study how to design and accomplish the in vitro and in vivo experimental tools for the pharmacokinetic investigation in preclinical and clinical levels. Also learn the statistic concepts and program related to the pharmacokinetic fields.	Ilsan	Thu5.0-7.5/13:00-16:00

2021	Spring	Graduate	English	Graduate School	PMY7427	01	3	Advanced Drug Interaction	With this lecture, you will understand some examples of drug interactions affecting the pharmacokinetics and/or pharmacodynamics and their clinical implications in various diseases.	Ilsan	Tue6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	PMY7429	01	3	Advanced Pharmacokinetics 1	This course is provided for students in the Master's or Ph.D. courses. On completing this course, students will: 1) be able to calculate the basic pharmacokinetic parameters from clinical data. 2) be able to use basic pharmacokinetic parameters to calculate practical dosage regimens 3) be able to calculate and/or describe the effects of various abnormal clinical conditions and/or drug interactions on the parameters	Ilsan	Mon6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	PMY7520	01	3	Advanced Pharmaceutical Biochemistry 1	In the present course, we will introduce the molecular mechanisms, underlying etiology, carcinogenesis, and the pathological states of individual stages. In addition, conventional chemotherapeutic drugs and putative anti-carcinogenic agents, developed utilizing novel mechanisms of actions as well as molecular biology techniques are introduced.	Ilsan	Wed5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	PMY7522	01	3	Advanced Pharmaceutical Molecular Oncology	In the present course, we will introduce the molecular mechanisms, underlying etiology, carcinogenesis, and the pathological states of individual stages. In addition, conventional chemotherapeutic drugs and putative anti-carcinogenic agents, developed utilizing novel mechanisms of actions as well as molecular biology techniques are introduced.	Ilsan	Tue5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	PMY7523	01	3	Thesis Research in Pharmaceutical Biochemistry 1	This course is provided for students in the Master or Ph.D. course. Students will be guided to fulfill thesis research for Master or Ph.D. degree in biochemistry and learn how to write dissertation and research papers.	Ilsan	Tue1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	PMY7601	01	3	Advanced Pharmaceutical Microbiology 1	The latest findings and progress in microorganisms associated with the production of pharmaceuticals will be discussed in this course.	Ilsan	Wed5.0-7.5/13:00-16:00
2021	Spring	Graduate	English	Graduate School	PMY7701	01	3	Advanced Pharmaceutics 1	This lecture is focused on the principles and concepts for preformulation and formulation to maximize the pharmacological efficacy as well as to decrease the undesirable side effects.	Ilsan	Mon7.0-9.5/15:00-18:00
2021	Spring	Graduate	English	Graduate School	PMY7708	01	3	Thesis Research in Pharmaceutics 2	This course is provided for students in the Master or Ph.D course. Students will be guided to fulfill thesis research for Master or Ph.D degree in medical immunology and learn how to write dissertation and research papers.	Ilsan	Thu1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	PMY7715	01	3	Pharmaceutical Kinetics	This course will provide backgrounds on the pharmaceutical rate kinetics focusing on formulation development point of view. Physicochemical properties of compounds, effects of environmental changes such as pH, temperature, and ionic strengths will be the typical topics of the course.	Ilsan	Mon6.0-8.5/14:00-17:00
2021	Spring	Graduate	English	Graduate School	PMY7717	01	3	Thesis Research in Pharmaceutical Engineering 1	This course is provided for students in the Master and Ph.D. course. Students will be guided to fulfill thesis research for Master and Ph.D. degree in pharmaceutical engineering and learn how to write dissertation and research papers.	Ilsan	Tue1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	PMY7827	01	3	Thesis Research in Pharmacokinetics 1	This course is provided for students in the Master or Ph.D. course. Students will be guided to fulfill thesis research for Master or Ph.D. degree in pharmacokinetics and learn how to write dissertation and research papers.	Ilsan	Mon1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	PMY7831	01	3	Pharmacogenomic Big Data & New Drug Development	To understand the collection, construction, and analysis of pharmacogenomic big data for the precision medicine and to explore the latest research trends and practical possibilities in the development of personalized new drugs.	Ilsan	Wed1.0-3.5/09:00-12:00
2021	Spring	Graduate	English	Graduate School	SEM7012	01	3	Advanced Quantum Mechanics	This focuses on advanced quantum mechanics including electron's motion in the presence of magnetic fields, superposition, entanglement, and spin related quantum properties.	Seoul	ㄹ2.0-4.5/10:00-13:00
2021	Spring	Graduate	English	Graduate School	TEE7039	01	3	Managing the Innovation Process	This course approaches "managing the innovation process" through five levels of analysis: individual, team, network, organizational, and industrial.	Seoul	Tue1.0-3.5/09:00-12:00

1. Please make sure that there will be an add or drop period at the beginning of semester. Courses may or may not become available within the period.
2. Undergraduate courses with the initial digit of 4 is for 3rd and 4th year students (or above) and the courses of 2XXX is for 1st and 2nd year students. (Ex: ACG2007 is for 1st and 2nd year students, and ADV4017 is for 3rd and 4th year students.)
3. Courses with fewer than the minimum number of students may get cancelled.
4. Courses from College of Arts are only available for the students who are from the college. (Especially, courses for Film and Painting require an approval of the faculty.)
5. Graduate students may take undergraduate level courses. However, graduate level classes are not available for undergraduate students.

FALL 2021 Courses Taught in English
(updated on July, 20)

Year	Semester	Level of Study	College	Course Code	Credit	Course Name	Course Description	Teaching Method	Campus	Timetable
2021	2	Undergraduate	Dongguk Business School	ACG2007-01	3.0	Financial Accounting	This course surveys the basic accounting concepts and procedures used in the preparation of financial statements, statement analysis. It focuses on the principles and techniques of preparing financial statements including the statement of cash flows. It also covers in depth the major asset, long-term liability, and shareholders' equity accounts.	TBA	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	Dongguk Business School	ACG2007-02	3.0	Financial Accounting	This course surveys the basic accounting concepts and procedures used in the preparation of financial statements, statement analysis. It focuses on the principles and techniques of preparing financial statements including the statement of cash flows. It also covers in depth the major asset, long-term liability, and shareholders' equity accounts.	TBA	Seoul	Mon.7.0-8.0/15:00-16:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	Dongguk Business School	ACS2005-02	3.0	Understanding Film Production	Students will learn all phases of pre-production, production and postproduction. Students work in small teams on focused short projects. Each team will finish a short video. Open to Film major only, Freshman (Offered spring semester.) 3 credits	In-person	Seoul	Tue.6.0-8.5/14:00-17:00
2021	2	Undergraduate	College of Social Sciences	ADV2003-01	3.0	Advertising psychology & consumer behavior	This course introduced to examine theories and basic concepts of cognitive and social psychology that relate to consumers' responses to advertising messages. It is also aimed to deepen our understanding of the characteristics and relative effects of different advertising appeals. We will further explore how theories of advertising psychology and consumer behavior can be applied to the practice of advertising planning and execution.	TBA	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Social Sciences	ADV2003-02	3.0	Advertising psychology & consumer behavior	This course introduced to examine theories and basic concepts of cognitive and social psychology that relate to consumers' responses to advertising messages. It is also aimed to deepen our understanding of the characteristics and relative effects of different advertising appeals. We will further explore how theories of advertising psychology and consumer behavior can be applied to the practice of advertising planning and execution.	TBA	Seoul	Mon.5.5-6.5/13:30-15:00, Wed.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Social Sciences	ADV4021-01	3.0	Public Relations writing strategies 2	Learn about the basic principles of English writing style. Based on the foundation, build up proficiency in the AP style for media writing while learning more about how to write in English public relations messages such as news release, feature release, media alert, and business letter.	Online	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Social Sciences	ADV4021-02	3.0	Public Relations writing strategies 2	Learn about the basic principles of English writing style. Based on the foundation, build up proficiency in the AP style for media writing while learning more about how to write in English public relations messages such as news release, feature release, media alert, and business letter.	Online	Seoul	Tue.8.5-9.5/16:30-18:00, Thu.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Social Sciences	ADV4036-01	3.0	Global Advertising	This class is offered for students to introduce the opportunities and challenges involved in developing and implementing advertising strategies for international markets.	Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Social Sciences	ADV4039-01	3.0	Issue and Crisis Management	This course intends to cover main concepts, processes and case analyses of issue and crisis management.	Online	Seoul	Mon.7.0-8.0/15:00-16:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Engineering	ARC4042-01	3.0	Construction Planning and Control	A variety of time management techniques are to be covered especially for design and construction phases. Individual in-class exercise problems and a group term project will be assigned. Commercial scheduling softwares that are widely utilized in the construction industry will be introduced.	In-person + Online		Mon.5.0-6.0/13:00-14:30, Wed.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Engineering	ARC4043-01	3.0	Building Mechanical System	This subject introduces the theory and practice of air-conditioning system, plant system, various kinds of equipments and ducts, etc. Besides, it covers energy-saving design strategy and plans about the application methods, operation methods, economic efficiency and thermal comfort of air-conditioning system in building.	Online		Tue.1.5-2.5/09:30-11:00, Thu.3.5-4.5/11:30-13:00
2021	2	Undergraduate	College of Engineering	ARC4056-01	3.0	Construction Contracts and Operations	This course applies construction-related laws and operations in engineering practice. Topics include contracts, construction contract documents, laws, systems, bonds, insurance, and claims. Extensively this course contributes to the basic knowledge for legal responsibilities and ethical requirements of the professional engineer in construction industry.	Online		Mon.6.5-7.5/14:30-16:00, Wed.6.5-7.5/14:30-16:00
2021	2	Undergraduate	College of Engineering	ARC4060-01	3.0	Application of Computer Software for Architectural Engineering	This subject allows students to use computer system and program by learning the theory and practice in parts of building structure, building construction and management, and building environment and equipment system.	In-person		Wed.1.0-4.5/09:00-13:00
2021	2	Undergraduate	College of Engineering	ARC4060-02	3.0	Application of Computer Software for Architectural Engineering	This subject allows students to use computer system and program by learning the theory and practice in parts of building structure, building construction and management, and building environment and equipment system.	In-person		Fri.1.5-5.0/09:30-13:30
2021	2	Undergraduate	College of Engineering	ARD4036-01	3.0	Computer Application to Architecture	Comprehensive studies on the application methodology of walk through, texture and shadow simulation including 2D drawing and 3D model by means of BIM-based CAD and 3D modeling software to provide an overview of the visualization of design computing applications and their use in practice.	TBA		Mon.1.0-4.5/09:00-13:00
2021	2	Undergraduate	College of Engineering	ARD4038-01	3.0	Urbanism and Public Realm	This course is an introductory lecture that overview the field of urban public space in city design. We will study the quality of public realm in urban environment as well as formal design language of form, structure and dimension for urban public space. The course proceed as a pair of literature reviews of theoretical framework as well as cases of urban design intervention for urban public places of exemplary projects of particular location including street, boulevard, square, plaza, common, garden, park, waterfront, university campus, etc.	Online		Mon.6.5-7.5/14:30-16:00, Wed.6.5-7.5/14:30-16:00
2021	2	Undergraduate	College of Life Science and Biotechnology	BES2020-01	3.0	Environmental Soil Chemistry	This course introduces the interactions between soil solids, precipitates, and solution phases. However, students understand the soil fundamentals: soil mineralogy, permanent charge & variable charge in clay mineral crystal structure, cation exchange capacity (CEC), adsorption, weathering and buffering, soil colloidal chemistry, acidic and basic soils, salinity, and models of solution and solid phase interactions.	Online		Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Life Science and Biotechnology	BES4006-01	3.0	Environmental Biotechnology & Lab	This course focuses on basic knowledge and research protocols to conserve and restore environmental resources with the application of biotechnological and environmental sciences. The course addresses scientific manners how to develop environmentally sound components and bio-materials and raise capacity building to establish bio-venture on environmental science. The laboratory introduces students to biotechnological techniques which are currently being used in biological analysis and compounds and raises to apply the technologies to the industries.	In-person		Tue.5.5-6.0/13:30-14:30, Tue.6.5-9.0/14:30-17:30
2021	2	Undergraduate	College of Life Science and Biotechnology	BES4009-01	3.0	Environmental Microbiology	Microbial interactions in soils, water, extreme environments and biofilms. Modern methods for studying microbial ecology, role of microbes in nutrient cycles and biogeochemistry. Use of microorganism for mitigating man-made environmental problems of industrial, agricultural, and domestic origin.	Online		Tue.1.0-2.0/09:00-10:30, Thu.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Life Science and Biotechnology	BIO2011-01	3.0	Cell Biology and Lab	Subjects including the components and their characteristics of the cell, structural and functional comparison between the prokaryotes and eukaryotes, structure and function of the cell membrane, and cell division are studied. Experiments related with the subjects are performed.	In-person + Online		Mon.6.5-8.0/14:30-16:30, Wed.6.5-8.0/14:30-16:30
2021	2	Undergraduate	College of Life Science and Biotechnology	BIO4022-01	3.0	Bioinformatics	This course is designed to teach the underlying concepts and algorithms of the computational tools used in bioinformatics and the actual applications of these tools using biological databases such as NCBI.	In-person + Online		Tue.6.5-7.5/14:30-16:00, Thu.6.5-7.5/14:30-16:00
2021	2	Undergraduate	College of Life Science and Biotechnology	BIO4032-01	3.0	Biophysics	Biophysics is the study of the physical characteristics of biological organisms and their cellular components. This class will discuss various aspects of biological macromolecules including nucleic acids (DNA and RNA) and protein to introduce how the structural features of these molecules affect their biological functions. In addition, the principles of various modern biotechnological tools will be discussed.	In-person + Online		Wed.1.0-3.5/09:00-12:00
2021	2	Undergraduate	College of Buddhist Studies	BIS2021-01	3.0	Abhidharma Buddhism	This course is a general survey of Abhidharma Buddhism. After a brief introduction to its canonical literature, it deals with the development of Abhidharmic philosophical systems, such as the Sarvastivada. This course focuses on investigating the basic concepts of Abhidharma Buddhism, such as dharma, the consciousness process, karma and rebirth.	Online	Seoul	Tue.5.5-6.5/13:30-15:00, Wed.7.0-8.0/15:00-16:30

2021	2	Undergraduate	College of Buddhist Studies	BIS4013-01	3.0	Esoteric and Tibetan Buddhism	This course will introduce the student to the main teachings of Esoteric Buddhism and its assimilation in Tibet. We will address the question of the special characteristics of Esoteric Buddhism that differentiate it from other forms of Mahayana, and we will gain some insight into the history of Tibetan monasteries, their rituals, meditation practices and the philosophical doctrines.	In-person	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Buddhist Studies	BIS4017-01	3.0	Seon Culture Theory	The examination of the contents and its methods of the desirable Seon culture through the theory and practice of the Seon culture which exists in various fields of the life of modern people.	In-person	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Buddhist Studies	BIS4047-01	3.0	World Religions	Objective study of world religions: their origins, developments, and histories. Special attention will be given to the issue of the historical nature of religions and hermeneutical method of interpretations.	In-person	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Life Science and Biotechnology	BME2019-01	3.0	Principle of Biomaterials & Experimentaion	The purpose of this curriculum is understanding biomaterials used in the health care and incubation experiments to acquire processing technique.	In-person		Tue.2.5-6.0/10:30-14:30
2021	2	Undergraduate	College of Life Science and Biotechnology	BME2022-01	3.0	Fundamentals of basic medical engineering	The 'Fundamentals of basic medical engineering' course covers basic concepts of biomedical engineering and their connection with the spectrum of human activity. It serves as an introduction to the fundamental science and engineering on which biomedical engineering is based. Case studies of medical products illustrate the product development-product testing cycle, patent protection, and FDA approval. It is designed for science and non-science majors.	In-person		Mon.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Life Science and Biotechnology	BME2030-01	3.0	Biomedical Programming 2	This course develops the ability to apply computer programming techniques to various biomedical fields.	In-person + Online		Tue.7.0-10.5/15:00-18:50
2021	2	Undergraduate	College of Life Science and Biotechnology	BME2031-01	3.0	Biomedical Polymers	We have a plan to study various kinds of biomedical polymers which is a critical factor in biomedical engineering and to intensify the knowledge through experimenting.	In-person		Wed.7.0-10.5/15:00-18:50
2021	2	Undergraduate	College of Life Science and Biotechnology	BME4050-01	3.0	Immunological Biotechnology & Experiments	This curriculum is fostering the ability to apply biographies based on immunology by understanding various immunological and physiological mechanisms caused by the interaction between the components of the immune system and their interaction and acquiring experimental techniques.	In-person		Tue.2.0-3.5/10:00-12:00, Thu.2.0-3.5/10:00-12:00
2021	2	Undergraduate	College of Life Science and Biotechnology	BME4054-01	3.0	Biomedical Signal Processing System	This course provides students with fundamental knowledge for analyzing biomedical signals and systems. This includes time domain signal analysis, Fourier series and transform, sampling theory, Laplace transform, Z-transform, and several filter design techniques.	In-person + Online		Mon.5.5-6.5/13:30-15:00, Wed.5.5-6.5/13:30-15:00
2021	2	Undergraduate	Interdisciplinary Program	BSI4002-01	3.0	Big Data processing using Biological Public Databases	This course is designed to teach how to preprocess biological big data using open-source programs such as R and Python. Students will learn to understand how to process various biological data for analysis, and how to use essential packages or libraries for biological data handling.	Online	Ilsan	Tue.11.0-14.5/18:50-22:20
2021	2	Undergraduate	College of Engineering	CEN2023-01	3.0	Introduction to Environmental Engineering	Environmental engineering has been defined as the branch of engineering that is concerned with protecting the environment from the potentially deleterious effects of human activity protecting human populations from the effects of adverse environmental factors, and improving environmental quality for human health and well being. thus, understanding of the nature of the environment and of human interaction with it is a necessary prerequisite to understand the work of the environmental engineer. In this course, the overall concept of environmental engineering is introduced and the physical, chemical, mathematical, and biological principles of defining, quantifying, and measuring environmental quality are discussed.	Online		Tue.2.5-3.5/10:30-12:00, Fri.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	CEN2034-02	3.0	Introduction to Chemical Engineering Thermodynamics	This course concerns applications of thermodynamics law to chemical engineering. There will be study of thermo-characteristics of fluids, expansions, compression and refrigerations, phase equilibrium, chemical equilibrium, and thermodynamical analysis of chemical processes.	Online		Thu.1.0-2.0/09:00-10:30, Fri.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Engineering	CEN2035-02	3.0	Adventure Design	Recently, new products and processes are usually designed using a DFSS (Design for Six Sigma). In this course, we understand the chemical engineering basic principles and the scientific design for Chemical and Biochemical engineering through Six Sigma methods such as Define, Measure, Analyze, Design, and Verify.	In-person + Online		Thu.7.0-9.5/15:00-18:00
2021	2	Undergraduate	College of Engineering	CEN4063-01	3.0	Display Materials Engineering	The course covers materials for electronic information display devices that are applicable to LCD, PDP, LED, OLED and other device. Especially focused on operating principles, materials, and current technical trend.	In-person + Online		Mon.2.5-3.5/10:30-12:00, Wed.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Engineering	CEN4065-01	3.0	Catalytic Reaction Engineering	This course deals with topics in the reactor design related to nonisothermal reactions and heterogeneous catalysis. The class includes lectures on the basic theories in the kinetics and reactor design principles of nonisothermal reactions, and the fundamental concepts in heterogeneous catalysts, catalytic reaction and reactor design.	Online		Thu.5.5-6.5/13:30-15:00, Fri.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	CEN4072-01	3.0	Process Modelling and Simulation	This course teaches students how to simulate chemical processes using computers, allowing them to design chemical processes based on simulation. In particular students will learn how to use process simulator software to develop flowsheets simulating sequences of process units to solve design problems. In addition students will learn about modelling so that they can understand how the process simulators work and so they can develop their own simulation models.	Online		Thu.3.0-3.5/11:00-12:00, Fri.8.0-10.5/16:00-18:50
2021	2	Undergraduate	College of Engineering	CEN4074-02	3.0	Heat and Mass Transfer	This course is concerned about heat and mass transfer theory widely used in chemical processes. First, it deals with the principle of heat transfer phenomenon by conduction, convection, and radiation, and then mathematical formulation to solve various heat transfer problems. It also discuss mass transfer theory similar to heat transfer and can handle design of some heat and mass transfer devices.	In-person + Online		Mon.8.5-9.5/16:30-18:00, Tue.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Engineering	CEN4078-01	3.0	Biomedical & Biomaterial Engineering	A review of the fundamental principles involved in the design of engineered tissues and organs with the aid of various stem/progenitor cell populations and biomaterials. For the development of functional tissue regenerative medical applications, fundamental information about tissue engineering and stem cell researches will be studied. This course covers a fundamental physiology of human tissues, cutting-edge stem cell sciences & its medical applications, degradable & implantable polymeric biomaterials, drug delivery strategies, immuno-cancer therapy, artificial organs, and various applications in tissue engineering & regenerative medicine applications. In addition to the principles of cell/molecular biology and anatomy, a series of in vivo animal studies will also be discussed.	Online		Tue.5.5-6.5/13:30-15:00, Fri.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Natural Sciences	CHE2009-01	3.0	Analytical Chemistry II	This course provides to understand basic principles and techniques of quantitative chemical analysis including precipitation, complex equilibria of heterogeneous solution, principles of electrochemistry, spectrophotometric analysis and separation techniques.	Online	Seoul	Mon.5.5-6.5/13:30-15:00, Wed.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Natural Sciences	CHE2012-01	3.0	Experiments in Organic and Analytical Chemistry 2	Multi-step organic synthesis. Qualitative organic analysis. Separation, identification, and characterization of unknowns.	In-person	Seoul	Mon.7.0-12.5/15:00-20:30
2021	2	Undergraduate	College of Natural Sciences	CHE2012-02	3.0	Experiments in Organic and Analytical Chemistry 2	Multi-step organic synthesis. Qualitative organic analysis. Separation, identification, and characterization of unknowns.	In-person	Seoul	Tue.7.0-12.5/15:00-20:30
2021	2	Undergraduate	College of Natural Sciences	CHE4051-01	3.0	Chemical Biology	- Student will be taught life activity at molecular level based on the knowledge General chemistry and Organic chemistry. - Through this course, the students will take a theoretical background for identification of disease mechanism, drug discovery and diagnosis. - The course will mainly focus lecture and discussion but sometimes includes team projects.	In-person + Online	Seoul	Tue.4.5-7.0/12:30-15:30
2021	2	Undergraduate	College of Natural Sciences	CHE4058-01	3.0	Instrumental Analysis	This course includes fundamental chromatography, UV/Vis spectroscopy, IR spectroscopy, Raman spectroscopy, atomic absorption analysis, and thermal and mass spectrometric analysis. In addition, their applications in industry will be discussed.	In-person + Online	Seoul	Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	CIV2010-01	3.0	Fluid Mechanics	The basic theory is learned on fluid property, hydrostatics, hydrostatics, and pipe flow. The ability to apply the basic understanding to the real-world is also pursued.	In-person + Online		Tue.5.0-6.0/13:00-14:30, Thu.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Engineering	CIV2034-01	3.0	Civil Engineering Geology	This course deals with the formation of rock, its characteristics, and geological structures. Emphasis will be made on applications of geology to civil engineering works.	Online		Fri.1.0-3.5/09:00-12:00
2021	2	Undergraduate	College of Engineering	CIV2035-01	3.0	Environmental Engineering and Experiment	The Earth suffer from the pollutions caused by the rapid urbanization, excessive use of pesticides, wastewater from the industry, greenhouse effect from excess use of fossil fuel, radioactive contamination by the accidental oil spill and so on. This lecture will discuss about the relationship between bio-system including human beings and the Earth and perform basic experiments related with the environmental problems.	TBA		Mon.6.5-8.0/14:30-16:30, Wed.6.5-8.0/14:30-16:30
2021	2	Undergraduate	College of Engineering	CIV4013-01	3.0	Rock and Tunnel Engineering	This course will provide students with the fundamentals of rock and rock mass behaviors ? the differences between intact rock and rock mass and the stress-strain characteristics of intact and rock mass ? and the applied knowledge of the rock mechanics such as rock slope stability and tunnel excavation.	In-person		Mon.7.0-8.0/15:00-16:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Engineering	CIV4022-01	3.0	Contracts and Legal Issues in Construction	This course deals with various legal issues in the construction industry while focusing on construction contracts. Topics covered in the course includes domestic construction policies, elements of contracts, breach of contracts, Construction Torts, disputes resolution techniques, and so on.	In-person + Online		Tue.6.5-7.5/14:30-16:00, Thu.6.5-7.5/14:30-16:00

2021	2	Undergraduate	College of Engineering	CIV4059-01	3.0	Applied Structural Mechanics	Structural mechanics and analysis theory for statically indeterminate structures. Stiffness and flexibility methods including compatibility methods, slope-deflection method and moment distribution method. Energy principles and virtual work principle for structural analysis. Introductory theory and application of structural dynamics for simple models of structures subjected to dynamic loads such as earthquake ground motion and wind loading.	In-person + Online		Mon.5.0-6.0/13:00-14:30, Wed.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Engineering	CIV4069-01	3.0	Geographical Information System for Water Environmental Engineers	Students will learn basic GIS skills for collection, processing and analysis of spatial data in the field of water environmental engineering. Decision making processes for optimal solutions based on GIS modeling and scenario analysis will be also discussed.	In-person		Tue.2.0-3.5/10:00-12:00, Thu.2.0-3.5/10:00-12:00
2021	2	Undergraduate	College of Engineering	CIV4075-01	3.0	Design of Concrete Structures	Study of fundamental concepts and code constraints for designing concrete structural members. Design of reinforced concrete columns, two-way slabs, foundations and retaining walls. Introduction to prestressed concrete concepts and design methods.	In-person + Online		Mon.7.0-8.0/15:00-16:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Social Sciences	COS2009-02	3.0	Theories of Mass Communication	This course is designed to provide systematic understanding of mass communication phenomena. The content of the course focuses on theories and achievements in mass communication studies, debates around them, and methodological techniques to verify them.	TBA	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Social Sciences	COS2015-01	3.0	Digital Media and Communication	We are living in the era of digital. Digitalization of media blurs the boundary of each media. Due to the digitalization of media, convertibility and mobility which are based on the network have been facilitated. Therefore, the vector of connection between people as well as between used-to-be scattered information and contents has been drastically accelerated. We have witnessed the hybridization of different genres, the extension of human senses, and the co-existence of physical and digital space. The goal of this class is to explore the mode of communication in the digital media environment, resulting in the deep understanding of digital society and culture.	Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Police and Criminal Justice	CRS2009-01	3.0	Understanding of Official Crime Statistics	This course studies the characteristics and utilization of official crime statistics, which is the basis for the criminal investigations, crime analysis, and crime prevention policies.	Online		Mon.7.0-9.5/15:00-18:00
2021	2	Undergraduate	College of Police and Criminal Justice	CRS2010-01	3.0	Social Psychology	Social psychology is the scientific study of how people's thoughts, feelings, and behaviors are influenced by the actual, imagined or implied presence of others. Topics include social perception, self, attitude and attitude change, social motivation and affect, group dynamics, prosocial behavior, antisocial behavior, and culture.	In-person		Tue.1.0-2.0/09:00-10:30, Tue.2.5-3.5/10:30-12:00, Thu.1.0-2.0/09:00-10:30, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Police and Criminal Justice	CRS4010-01	3.0	IoT and Crime	This class studies about cyber-crime and internet of things crime for prevention and policy by analyzing the characteristics of cyber-crime and internet of things crime.	Online		Fri.6.0-8.5/14:00-17:00
2021	2	Undergraduate	College of Engineering	CSE2017-01	3.0	Data Structure	This course introduces data structures and algorithms to solve problems by computers in an effective way. Students learn and practice the methods to implement these with a programming language. Topics include arrays and linked lists, structures such as stacks, queues, trees, graphs, and various methods for searching and sorting of data.	In-person		Tue.5.0-6.5/13:00-15:00, Wed.2.0-3.5/10:00-12:00
2021	2	Undergraduate	College of Engineering	CSE4066-01	3.0	Computer Engineering Capstone Design 1	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Among the fundamental elements of design process, the establishment of design objectives and criteria, researches on the previous works, idea making, analysis, presentation for the design proposal, and collaborative design are focused in this course. Students form a team and work on a project throughout the semester.	In-person + Online		Mon.7.5-9.0/15:30-17:30, Fri.8.0-9.5/16:00-18:00
2021	2	Undergraduate	College of Engineering	CSE4067-01	3.0	Computer Engineering Capstone Design 2	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Continued with the Computer Engineering Capstone Design 1 course, the implementation of detailed system components and their integration, testing, presentation of the design report, engineering ethics are done during this course with team members.	Online		Mon.7.0-8.5/15:00-17:00, Fri.8.0-9.5/16:00-18:00
2021	2	Undergraduate	College of Engineering	CSE4067-02	3.0	Computer Engineering Capstone Design 2	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Continued with the Computer Engineering Capstone Design 1 course, the implementation of detailed system components and their integration, testing, presentation of the design report, engineering ethics are done during this course with team members.	In-person + Online		Tue.9.0-10.5/17:00-18:50, Fri.8.0-9.5/16:00-18:00
2021	2	Undergraduate	College of Engineering	CSE4067-03	3.0	Computer Engineering Capstone Design 2	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Continued with the Computer Engineering Capstone Design 1 course, the implementation of detailed system components and their integration, testing, presentation of the design report, engineering ethics are done during this course with team members.	Online		Wed.9.0-10.5/17:00-18:50, Fri.8.0-9.5/16:00-18:00
2021	2	Undergraduate	College of Engineering	CSE4067-04	3.0	Computer Engineering Capstone Design 2	This class deals with the engineering design problem which is defined as the process of devising a system, component, or process to meet the desired needs. Continued with the Computer Engineering Capstone Design 1 course, the implementation of detailed system components and their integration, testing, presentation of the design report, engineering ethics are done during this course with team members.	Online		Wed.9.0-10.5/17:00-18:50, Fri.8.0-9.5/16:00-18:00
2021	2	Undergraduate	College of Engineering	CSE4076-01	3.0	Technical Presentation	Learn to write technical reports and academic papers, and develop ability to give presentations in English. Class participants will write a short (three pages) technical paper that describes the project from Computer Engineering Capstone Design class and give two presentations (one intermediate and the final) in English.	Online		Mon.2.0-3.5/10:00-12:00, Wed.5.0-6.5/13:00-15:00
2021	2	Undergraduate	Dongguk Business School	DBA2002-01	3.0	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make active participations in class discussions and exercises.	Online	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	Dongguk Business School	DBA2002-02	3.0	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make active participations in class discussions and exercises.	Online	Seoul	Wed.5.5-6.5/13:30-15:00, Fri.5.5-6.5/13:30-15:00
2021	2	Undergraduate	Dongguk Business School	DBA2002-03	3.0	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make active participations in class discussions and exercises.	Online	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	Dongguk Business School	DBA2002-04	3.0	Organizational Behavior	The purpose of this course is to understand how companies have developed unique characteristics and what issues are critical to the management of organizations. In this course, students learn individual, group, and organizational context issues such as individual differences, teamwork, communication, and leadership that significantly affect an organizational competitiveness. Throughout this course, students are expected to make active participations in class discussions and exercises.	Online	Seoul	Tue.7.0-8.0/15:00-16:30, Thu.7.0-8.0/15:00-16:30
2021	2	Undergraduate	Dongguk Business School	DBA2004-01	3.0	Financial Management	Financial Management is the introductory course that deals with financial decision making based on the time value of money and the risk and return. This course also covers fundamental issues in corporate finance such as capital budgeting and capital structure, and in investments such as capital asset pricing model and valuation of stocks and bonds.	TBA	Seoul	Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	Dongguk Business School	DBA2004-02	3.0	Financial Management	Financial Management is the introductory course that deals with financial decision making based on the time value of money and the risk and return. This course also covers fundamental issues in corporate finance such as capital budgeting and capital structure, and in investments such as capital asset pricing model and valuation of stocks and bonds.	In-person + Online	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	Dongguk Business School	DBA2004-04	3.0	Financial Management	Financial Management is the introductory course that deals with financial decision making based on the time value of money and the risk and return. This course also covers fundamental issues in corporate finance such as capital budgeting and capital structure, and in investments such as capital asset pricing model and valuation of stocks and bonds.	In-person + Online	Seoul	Mon.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30

2021	2	Undergraduate	Dongguk Business School	DBA2006-01	3.0	Principles of Management Information System	This course examines topic and issue related to developing and implementing information technologies in business environment. It covers the concept of management information system, technological issue, business data communication, application of information systems, and development of information system in organization. The course covers recent technical issues and relevant references in addition to a textbook.	In-person + Online	Seoul	Mon.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	Dongguk Business School	DBA2006-02	3.0	Principles of Management Information System	This course examines topic and issue related to developing and implementing information technologies in business environment. It covers the concept of management information system, technological issue, business data communication, application of information systems, and development of information system in organization. The course covers recent technical issues and relevant references in addition to a textbook.	In-person + Online	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	Dongguk Business School	DBA2009-01	3.0	Business English Debate 1	Business English/Business Debate is an English language course catering to students at the business school. The course objective is to prepare students to be able to confidently and successfully function in a business English environment, critically assessing business issues and navigating business challenges in English. Students will develop and practice core business English skills in a realistic environment, through a combination of textbook and project-based activities.	In-person + Online	Seoul	Mon.5.5-6.5/13:30-15:00, Wed.5.5-6.5/13:30-15:00
2021	2	Undergraduate	Dongguk Business School	DBA2010-01	3.0	Business English Debate 2	Business English/Business Debate is an English language course catering to students at the business school. The course objective is to prepare students to be able to confidently and successfully function in a business English environment, critically assessing business issues and navigating business challenges in English. Students will develop and practice core business English skills in a realistic environment, through a combination of textbook and project-based activities.	In-person + Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	Dongguk Business School	DBA2014-05	3.0	Principles of Accounting	This course begins the study of accounting. During the semester, students should gain an understanding of the basics of financial accounting & Managerial Accounting, learn how accounting information are useful for financial decision making.	Online	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	Dongguk Business School	DBA2017-01	3.0	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing communication strategies.	Online	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	Dongguk Business School	DBA2017-02	3.0	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing communication strategies.	Online	Seoul	Tue.7.0-8.0/15:00-16:30, Thu.7.0-8.0/15:00-16:30
2021	2	Undergraduate	Dongguk Business School	DBA2017-03	3.0	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing communication strategies.	TBA	Seoul	Wed.5.5-6.5/13:30-15:00, Wed.7.0-8.0/15:00-16:30, Fri.5.5-6.5/13:30-15:00, Fri.7.0-8.0/15:00-16:30
2021	2	Undergraduate	Dongguk Business School	DBA2017-04	3.0	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing communication strategies.	TBA	Seoul	Wed.1.0-2.0/09:00-10:30, Wed.2.5-3.5/10:30-12:00, Fri.1.0-2.0/09:00-10:30, Fri.2.5-3.5/10:30-12:00
2021	2	Undergraduate	Dongguk Business School	DBA2017-05	3.0	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing communication strategies.	TBA	Seoul	Tue.2.5-3.5/10:30-12:00, Tue.4.0-5.0/12:00-13:30, Thu.2.5-3.5/10:30-12:00, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	Dongguk Business School	DBA2017-06	3.0	Principles of Marketing(NCS)	The course aims to explore the primary components, principles, and practices of the marketing processes. It is designed to examine how marketing functions as an important part in firms, organization, and society. In the course, students will have an opportunity to be exposed to the major areas of marketing including consumer behavior, marketing research, marketing strategies, product development, marketing channel distribution, and marketing communication strategies.	Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Social Sciences	DUF2002-01	1.0	Introduction to Social Science	The goal of this course is to help students explore the fundamental knowledge and theory of modern society. This is an introductory level class designed to address the crucial facts of social science. More importantly, this class aims at providing useful tips and information regarding successful academic life for freshmen. Therefore, first year students who are interested in Social Science field are expected to participate in this class more assertively in order to become a smart and energetic freshmen in Dongguk University.	TBA	Seoul	Thu.8.5-9.0/16:30-17:30
2021	2	Undergraduate	College of Social Sciences	DUF2004-01	1.0	Introduction to Natural Science	In science, to make students realized that natural science refers to a naturalistic approach to the study of the universe, which is understood as obeying rules or laws of natural origin.	TBA	Seoul	Tue.4.0-4.5/12:00-13:00
2021	2	Undergraduate	College of Social Sciences	DUF2005-01	1.0	Introduction to Legal Studies	The course is designed to introduce students to some of the basic skills needed for the study of law and to give the student a basic understanding of some aspects of the English legal system.	TBA	Seoul	Mon.10.0-10.5/18:00-18:50
2021	2	Undergraduate	College of Social Sciences	DUF2005-02	1.0	Introduction to Legal Studies	The course is designed to introduce students to some of the basic skills needed for the study of law and to give the student a basic understanding of some aspects of the English legal system.	TBA	Seoul	Mon.11.5-12.0/19:15-20:05
2021	2	Undergraduate	College of Social Sciences	ECO2008-01	3.0	Principles of Macroeconomics	It deals with definitions of important macroeconomic variables, e.g., GDP, CPI, inflation, unemployment, money, and basic level of macroeconomic theories.	Online	Seoul	Tue.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Social Sciences	ECO2008-02	3.0	Principles of Macroeconomics	It deals with definitions of important macroeconomic variables, e.g., GDP, CPI, inflation, unemployment, money, and basic level of macroeconomic theories.	Online	Seoul	Tue.7.0-8.0/15:00-16:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Social Sciences	ECO2009-01	3.0	Micro-Economics	Microeconomics covers topics such as the consumer's behavior, a firm's profit maximization and features of market equilibrium. Its main objective is to let students learn how to analyze consumers' and firms' rational behavior under various market situations. It also analyzes the economic implications of various market structures and the meaning of the market equilibrium. By studying this subject, students are able to learn the basics of optimal decision-making and understand the underlying principles of the complicated modern market economy.	TBA	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Social Sciences	ECO2010-01	3.0	Macroeconomics	This course is designed to enhance students understanding of two major macroeconomic phenomena- the business cycle and economic growth- and other related ones. Basic macroeconomic models of income determination, price adjustment, and economic growth will be taught. Evaluation of governments macroeconomic policies will be covered, too.	Online	Seoul	Mon.8.5-9.5/16:30-18:00, Tue.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Social Sciences	ECO2010-02	3.0	Macroeconomics	This course is designed to enhance students understanding of two major macroeconomic phenomena- the business cycle and economic growth- and other related ones. Basic macroeconomic models of income determination, price adjustment, and economic growth will be taught. Evaluation of governments macroeconomic policies will be covered, too.	Online	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Social Sciences	ECO2010-03	3.0	Macroeconomics	This course is designed to enhance students understanding of two major macroeconomic phenomena- the business cycle and economic growth- and other related ones. Basic macroeconomic models of income determination, price adjustment, and economic growth will be taught. Evaluation of governments macroeconomic policies will be covered, too.	Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Social Sciences	ECO4008-01	3.0	Law and Economics	This course discusses the relationship between law/legal institution and the society. It introduces the Cases theorem on social costs and economically analyzes property law, contract, tort, and criminal law. Topics that are covered include conflicts of property rights, remedies for breach of contract, various liability rules for inducing due care policies to avoid accidents, optical deterrence of crimes, death penalty, drug abuse, gun control, etc.	TBA	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30

2021	2	Undergraduate	College of Social Sciences	ECO4008-02	3.0	Law and Economics	This course discusses the relationship between law/legal institution and the society. It introduces the Cases theorem on social costs and economically analyzes property law, contract, tort, and criminal law. Topics that are covered include conflicts of property rights, remedies for breach of contract, various liability rules for inducing due care policies to avoid accidents, optical deterrence of crimes, death penalty, drug abuse, gun control, etc.	TBA	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Social Sciences	EGC2104-01	3.0	Introduction to the History of Modern Art	The course is a brief overview of the History of Art starting at the turn of the century 19th Century with the Impressionist movement up to modern day contemporary artists, looking at the major movements and genres throughout this period. Students will learn to identify major works of art. They will be able to discuss the subject and/or narrative of the painting or sculpture. They will be able to comment on the composition, the scale, the framing, perspective and viewpoint, light and shade, and the media and technique used. They will be able to place the work of art into the context of the time it was created, comparing and/or contrasting it to other works.	In-person + Online	Seoul	Wed.8.0-9.0/16:00-17:30, Fri.8.0-9.0/16:00-17:30
2021	2	Undergraduate	College of Social Sciences	EGC3045-01	3.0	Understanding Advertising and Public Relations	This course is intended to explore the role of advertising and PR in contemporary society and comprehend the basic objectives and functions of advertising and PR in the disciplines of profit and nonprofit organizations. Also, this course overviews the general processes of message development and media execution, and attempts to systematically incorporate various industrial cases into the theories of advertising and PR.	Online	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Humanities	EIT2030-01	3.0	English Phonetics and Pronunciation Practicum	Students learn how to pronounce English sounds on the basis of articulatory phonetics. They apply their knowledge of articulatory phonetics to a phrasal level. This course requires students to practice English sounds on a regular basis at a lab.	In-person + Online	Seoul	Mon.8.0-9.0/16:00-17:30, Wed.8.0-9.0/16:00-17:30
2021	2	Undergraduate	College of Humanities	EIT2046-01	3.0	Fundamentals of English Writing	This course provides a basic foundation for academic writing in English. Students will learn about the writing process, editing, outlining, various grammar points, and will even practice various styles of essays including narrative, informative, cause-effect, and problem-solution.	In-person + Online	Seoul	Mon.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Humanities	EIT2050-01	3.0	Fundamentals of English Listening & Speaking 2	This course is an advanced course designed to enhance students' listening and speaking proficiency, which will improve their communication competence and interpretation skills. Students will be exposed to a variety of English texts in education, arts, politics, economy, etc.	In-person + Online	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Humanities	EIT2052-01	3.0	Debate & Public Speaking in English	The purpose of this course is to cultivate students' logical thinking and persuasive speaking skills. Students will learn the rules of debate, logical relations, effective arguments, and rhetorical techniques. They then will be given opportunities in class to make their own speech and have feedback from the teacher and classmates.	In-person + Online	Seoul	Tue.1.0-2.0/09:00-10:30, Thu.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Humanities	EIT4050-02	3.0	English Pragmatics and Translation	Through this course, the students can learn the key issues of English pragmatics and translate texts with focus on the pragmatic aspects of discourse. They are expected to understand the relations between pragmatics and semantics and to practise translation drawing on the theories learned. The theories to be covered in this course include speech acts, implicature and metaphor.	In-person + Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Humanities	EIT4067-01	3.0	Academic English Writing and Composition	This course, an advanced academic writing course, provides students with opportunities to practice professional writing. Students will learn the structure of writing and make thesis statements. Based on the process-oriented approach, students will be engaged in drafting, writing, and revising and be given feedback on their multiple drafts.	In-person + Online	Seoul	Tue.8.5-9.5/16:30-18:00, Thu.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Humanities	EIT4068-01	3.0	Language through Multicultural Perspectives	This course is based on the understanding that the world is multicultural and that globalization is bringing us all together. As students tackle complex topics about this multicultural and diverse world, they simultaneously practice all four vital skill sets in English language acquisition. In this class, all four language skills will be developed through the common thread of multicultural studies.	In-person + Online	Seoul	Mon.5.5-6.5/13:30-15:00, Wed.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Humanities	EIT4073-01	3.0	Korean-English Consecutive Interpreting 2	This course provides students with advanced training in consecutive from Korean to English. Exercises of increasing difficulty are introduced to equip students with the basic techniques of interpreting and to increase their confidence and competence in consecutive interpreting. Students will also be trained to deal with the basic problems and psychological constraints associated with this type of interpretation.	In-person + Online	Seoul	Mon.7.0-8.0/15:00-16:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Engineering	EME2005-01	3.0	Thermodynamics of Materials II	The purpose of Thermodynamics of Materials is to understand and expect the various chemical reactions and physical phenomena in material engineering. It is important to understand the physical and mathematical meanings of the four laws of thermodynamics and to apply them. Therefore, in this lecture, based on the understanding of the four laws of thermodynamics, various reactions (gas reaction, solid reaction and so on) are discussed deeply.	In-person + Online		Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Engineering	EME2014-01	3.0	Introduction to Materials Science and Engineering 2	This course aims to provide fundamental understandings of structure, property and processing of ceramic-, polymer-, and composite- materials, which are widely used in our daily life. In addition, various materials properties including corrosion-, electrical-, thermal-, magnetic- and optical- properties of three types of materials as well as state-of-the-art applications regarding each materials property will be covered and discussed.	In-person + Online		Mon.4.0-5.0/12:00-13:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Engineering	EME2019-01	3.0	Organic Materials 2	Students will learn the principles and methods of various electromagnetic spectroscopic analytical techniques for analyzing organic materials synthesized based on basic concepts in various organic materials learned in organic materials 1. We will also learn about various organic compounds such as amines and heterocyclic compounds that make living organisms and introduce various biomolecules related to human life.	Online		Mon.8.5-9.5/16:30-18:00, Wed.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Engineering	EME2020-01	3.0	Energy and material experiment 1	This course synthesizes various organic / inorganic based materials based on the knowledge related to energy materials, electronic information materials, and nanomaterials acquired in theoretical lectures, and analyzes the optical, physical and electrical properties of the materials. In addition, novel materials are designed and predicted based on the results of various material characteristics analysis.	In-person + Online		Fri.6.0-10.5/14:00-18:50
2021	2	Undergraduate	College of Engineering	EME2020-02	3.0	Energy and material experiment 1	This course synthesizes various organic / inorganic based materials based on the knowledge related to energy materials, electronic information materials, and nanomaterials acquired in theoretical lectures, and analyzes the optical, physical and electrical properties of the materials. In addition, novel materials are designed and predicted based on the results of various material characteristics analysis.	In-person + Online		Fri.1.0-5.5/09:00-14:00
2021	2	Undergraduate	College of Engineering	EME4025-01	3.0	Application of Electrochemistry and Experiments	This course include the practical training or the basic electrochemical experiments and its application to various system. It covers various electrochemical energy conversion, storages, and sensing applications as well as the classical electrochemical analysis.	In-person + Online		Mon.8.5-12.0/16:30-20:05
2021	2	Undergraduate	College of Engineering	ENE2011-03	3.0	Physical Electronics II	This lecture is the second part of the Physical Electronics I. The topics covered include: modeling of microelectronic devices, such as MOS devices and BJTs, relation of electrical behavior to internal physical processes, and understanding the uses or limitations of various models.	Online		Tue.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Engineering	ENE4017-01	3.0	Electrical Machinery II	This course covers the induction machine, special induction motor, synchronous machine and the running principles, characteristics and applications of the synchronous generator and the synchronous motor.	Online		Mon.8.0-9.0/16:00-17:30, Tue.8.0-9.0/16:00-17:30
2021	2	Undergraduate	College of Engineering	ENE4017-02	3.0	Electrical Machinery II	This course covers the induction machine, special induction motor, synchronous machine and the running principles, characteristics and applications of the synchronous generator and the synchronous motor.	Online		Mon.9.5-10.5/17:30-18:50, Tue.9.5-10.5/17:30-18:50
2021	2	Undergraduate	College of Engineering	ENE4033-03	3.0	Semiconductor Device Process	Topics include the fundamental principles of integrated circuit fabrication processes, physical and chemical models for crystal growth, oxidation, ion implantation, etching, deposition, lithography, and back-end processing. The lecture also offers physical bases and practical methods of silicon VLSI chip fabrication, or the impact of technology on device and circuit design.	In-person + Online		Thu.5.0-6.0/13:00-14:30, Fri.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Engineering	ENE4035-01	3.0	Power Control & Application	This course is an introduction to properties and industrial applications of the electric motor using power conversion devices; study of AC and DC drive control system such as the inverter, converter and chopper.	In-person + Online		Wed.8.0-9.0/16:00-17:30, Thu.6.5-7.5/14:30-16:00
2021	2	Undergraduate	College of Engineering	ENE4066-01	3.0	Introduction to Automatic Control	This is based on the foundations of automatic control system analysis, and simulation and system design using the MATLAB. This course covers state variable models, linear feedback control system characteristics, frequency response methods, stability in the frequency and time domain, and the design of state variable feedback systems.	Online		Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Humanities	ENG2017-01	3.0	English Literature and Drama	Centering on drama, which is one of the important fields in British and American literature, the course intends to understand drama as a performance art. It reviews Greek drama and myths, and major drama works which become genealogy of the dram history. Students can experience a three-dimensional feature of drama as a performance art through use of multimedia materials.	Online	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Humanities	ENG2030-01	3.0	Global English Composition	Students learn basic English sentence patterns and how to use composition tools such as reasons, examples, chronology, and comparison as well as essay forms. This course also helps students use words and idioms effectively in writing.	Online	Seoul	Tue.5.5-6.5/13:30-15:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Humanities	ENG2030-02	3.0	Global English Composition	Students learn basic English sentence patterns and how to use composition tools such as reasons, examples, chronology, and comparison as well as essay forms. This course also helps students use words and idioms effectively in writing.	Online	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00

2021	2	Undergraduate	College of Humanities	ENG2031-01	3.0	The World of English Language and Culture	This course aims to initiate students to the world of English language and culture by experiencing both written and electronic reading materials, and to bring up a prime mover of the global culture.	Online	Seoul	Tue.7.0-8.0/15:00-16:30, Thu.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Humanities	ENG2039-01	3.0	Contemporary American Novels and Culture	This course aims to understand contemporary American culture through reading contemporary American novels and watching films.	Online	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Humanities	ENG4024-01	3.0	English Exercise through Drama	Escaping from the traditional teaching style (focused on reading and literary talent), this course uses video texts which have recorded actual drama performance, which will help students understand meaning of drama. This class is carried out mainly in English and multimedia is utilized.	Online	Seoul	Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Humanities	ENG4048-01	3.0	Global English Cultures and Listening	The Purpose of this course is to study the global cultures and their varieties through the understanding of the global english cultures and the listening of their cultural texts, seeking to understand the English cultures in Australia, Newzealand, South Africa, India and so on.	Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Humanities	ENG4058-01	3.0	PresentationinEnglish	This class aims to develop the skills and techniques of presentation in English highly demanded at companies.By practicing various types of cultural discourses in English speaking countries, students can learn and increase not only their capacity to present in English but also the skills to work together and get faster adjusted to new environments.	Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Arts	FIL2080-01	1.0	Screening of Modern Film	This class will be dedicated to screening and discussing on modern film of worldwide to understand history, industry and aesthetics of modern film. Open to Film major, (Offered spring semester.) 1 credits	Online	Seoul	Thu.3.0-4.5/11:00-13:00
2021	2	Undergraduate	College of Arts	FIL2083-02	3.0	Aesthetics of Film	An intensive study of film aesthetics, with a different form as well as study of film fundamental theories. Examination of a variety of films with particular emphasis on aesthetic strategies. Open to Film major, (Offered fall semester.) 3 credits	Online	Seoul	Tue.2.0-4.5/10:00-13:00
2021	2	Undergraduate	College of Arts	FIL4084-02	3.0	Experimental Film Capstone Design	Film art or art film? Experimental filmmakers have always been excluded from the film industry as well as from the art market, yet they have continually pushed the art of film to new limits. So what position do they hold? What have been their influences and their innovations? How to understand their work in the context of narrative and documentary cinema and of contemporary art? This course will be an overview of experimental, avant-garde filmmaking from the beginning of cinema to the present. Open to Film major, Junior & Senior. (Offered every semester) 3 credits	In-person	Seoul	Wed.6.0-8.5/14:00-17:00
2021	2	Undergraduate	College of Social Sciences	FIS4035-01	3.0	Cooperatives	Cooperatives studies the principles of the history, ideology, essence, mission, general rule, organization, business and then researches the history, problems, trends in Korea-Agri-Cooperatives and problems and improving points of producing organizations in the place of producing Agri-Food.	In-person + Online	Seoul	Thu.7.0-9.5/15:00-18:00
2021	2	Undergraduate	College of Social Sciences	FIS4042-01	3.0	Food Industrial Organization	This subject introduces the specificity of corporation and the structure of market. The class progress is discussion and market and the competition concern with corporations.	In-person	Seoul	Wed.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Life Science and Biotechnology	FOO2011-01	3.0	Food Microbiology	The lecture will be covered on basic information of microbiology associated with food including taxonomy of microorganism, physiology, metabolism, cell structure and function, cell growth, genetic backgrounds. In addition, it will be covered on food manufacturing using food microorganisms, biological storage, lactic acid bacteria and health.	In-person		Tue.2.0-3.0/10:00-11:30, Wed.4.5-5.5/12:30-14:00
2021	2	Undergraduate	College of Life Science and Biotechnology	FOO4028-01	3.0	Food Immunology	The objective of this lecture is to introduce the fundamental immunology including structural features of the immune system and their functions as well as immune responses to ingested food components.	In-person + Online		Tue.8.5-9.5/16:30-18:00, Thu.3.5-4.5/11:30-13:00
2021	2	Undergraduate	College of Life Science and Biotechnology	FOO4038-01	3.0	Meta-analysis: systematic evaluation of foods and functional foods	This course introduces methods to conduct a meta-analysis of epidemiologic studies on foods and health outcomes.	Online		Tue.3.5-8.0/11:30-16:30
2021	2	Undergraduate	General Educaion	GCR2003-01	3.0	The Structure of Language and Its Social and Historical Aspects	This course will provide broad coverage of the field of linguistics, including phonological and grammatical analysis, diversity and complexity of human languages, dimensions of language use. We will explore the systematic, rule-governed nature of human language, as well as psychological, biological, and social considerations in its use. Linguistic analysis, argumentation, and problem solving will be emphasized. This course is intended to show language from various perspectives. We will discuss various factors that influence language variations such as geographic, social, cultural, and historical factors.	In-person + Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.3.0-4.0/11:00-12:30
2021	2	Undergraduate	General Educaion	GCR4002-01	3.0	Understanding Language, Neuroscience, and Human Development	This course covers human development and the functions of the brain related to language. We will discuss physical properties of human brain, especially lateralization and contralateralization of the brain. Brain disorders related to language will be discussed such as aphasia, autism and William's syndrome. We will have a chance to look at brain waves obtained from various areas in the brain that are related to sub-areas of language. We will also work on the anatomy of the head for human speech sounds. Then we will move on to what children learn from birth until two years of age. The study of how children acquire language will be one of the interesting topics. Children with different ages will make different mistakes. Based on those mistakes, we assume their developmental stages related to language. We will also discuss why adults have difficulty acquiring second languages. The exceptional cases for language acquisition such as abused children and feral children, who have been reportedly reared with wild animals, will provide interesting but sad stories and suggest how and when languages should be learned.	In-person + Online	Seoul	Tue.6.0-7.0/14:00-15:30, Fri.6.0-7.0/14:00-15:30
2021	2	Undergraduate	General Educaion	GCR7002-01	3.0	EnglishThroughDrama	This class is in which students will practice English through drama (stage plays and/or movie adaptations) with a focus on improvising and writing. Students will analyze motivation and conflict, write scenes, and perform drama. Students will be expected to actively participate in every class. Students will improve their confidence in speaking in front of people, learn how to react quickly in new situations, learn new ways of looking at the world, and experience writing and acting in their own scenes. Students will be able to further develop various techniques of acting, while learning how to build tension and resolve conflicts. Students will delve deeper into their English speaking and writing skills while learning a natural style of speaking English through modern drama scripts.	Online	Seoul	Tue.8.0-9.0/16:00-17:30, Thu.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Humanities	HIS2011-01	3.0	Readings in European History	Selective readings of the western language materials with emphasis on the training in doing independent research with western documents.	Online	Seoul	Tue.2.0-4.5/10:00-13:00
2021	2	Undergraduate	College of Humanities	HIS4035-01	3.0	Contemporary History of Korea	Contemporary History of Korea aims to help students to deepen their understandings on the contemporary history of Korea and its significance by studying the political, economic, social, cultural and diplomatic developments after 1945 liberation of Korea.	In-person + Online	Seoul	Thu.2.0-4.5/10:00-13:00
2021	2	Undergraduate	College of Engineering	INC2021-01	3.0	Probability and Random Process	In this class students will learn about probability, statistics and random processes for engineers. This course is offered to undergraduates students and covers studies on the basic concept of probability, random variables, basic stochastic and calculation processes. The nature and application of irregular variables and irregular processes are introduced as well as the basic concept of probability is redefined. Especially, students will examine examples of deterministic and stochastic systems and applications to statistic digital signal processing, optimization of filter and the queuing theory.	Online		Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	INC2024-01	3.0	Computer Algorithm and Practice	This class teaches the basic algorithms used in computer science. In particular, algorithms such as dynamic programming, greedy, branch-and-bound, and divide-and-conquer will be studied. This class also includes computer algorithm laboratories.	Online		Mon.2.0-3.5/10:00-12:00, Wed.2.0-3.5/10:00-12:00
2021	2	Undergraduate	College of Engineering	INC2024-02	3.0	Computer Algorithm and Practice	This class teaches the basic algorithms used in computer science. In particular, algorithms such as dynamic programming, greedy, branch-and-bound, and divide-and-conquer will be studied. This class also includes computer algorithm laboratories.	Online		Mon.5.0-6.5/13:00-15:00, Wed.5.0-6.5/13:00-15:00
2021	2	Undergraduate	College of Engineering	INC4057-01	3.0	Database Systems	This class studies the following subjects including database concepts, database system architecture, database model, database language.	In-person + Online		Mon.2.0-3.0/10:00-11:30, Wed.2.0-3.0/10:00-11:30
2021	2	Undergraduate	College of Engineering	INC4057-02	3.0	Database Systems	This class studies the following subjects including database concepts, database system architecture, database model, database language.	In-person + Online		Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Police and Criminal Justice	INS4017-01	3.0	Industrial Security Methodology	As a leakage of industrial information not only brings financial loss of a business but also has a negative effect on national interests and competence, participants are expected to research preventive tools by analyzing current security condition of the business through the course.	Online		Thu.1.0-3.5/09:00-12:00
2021	2	Undergraduate	College of Police and Criminal Justice	INS4020-01	3.0	Introduction to Digital Forensic	This course aims to introduce the technique and process to collect, identify, analyze, verify, and present digital evidence.	Online		Thu.1.0-3.5/09:00-12:00
2021	2	Undergraduate	College of Social Sciences	INT2005-02	3.0	Theories of International Economic Relations	This course studies the basic concepts and issues of international trade policy, international trading system, economic integration through trade and investment, commercial policy, balance of payments, exchange rate determination and its fluctuation, open economy macroeconomics, and trade and growth.	Online	Seoul	Mon.8.5-9.5/16:30-18:00, Wed.8.5-9.5/16:30-18:00

2021	2	Undergraduate	College of Social Sciences	INT2006-02	3.0	International Trade Theory	This course studies the basic concepts of trade theory such as determinants of trade flows, trade patterns, gains from trade, and international factor mobility. It also deals with the types of trade impediments, their effects on resource allocation and welfare, and possible remedies for reducing their distortional effects.	Online	Seoul	Mon.5.0-6.0/13:00-14:30, Wed.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Social Sciences	INT4038-02	3.0	Derivatives Trading	The objective of this class is to make students understand the mechanism of derivatives. To the end, students are encouraged to study the related theories of forwards, Futures, options and swaps as well as to practice the mock trading of the derivatives.	Online	Seoul	Tue.4.5-5.5/12:30-14:00, Thu.4.5-5.5/12:30-14:00
2021	2	Undergraduate	College of Engineering	ISE2021-01	3.0	Introduction to Data Analysis	In this course, we cover some basic contents for data analysis, including characteristics of data, feature selection, missing data analysis, exploratory data analysis, and representation of data. Also, the definitions of regression, classification, and clustering and simple algorithms for them are covered. The practices for these methods are also provided.	Online		Mon.5.5-6.5/13:30-15:00, Wed.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Engineering	ISE2022-02	3.0	Adventure Design	This class covers the basic understanding of Industrial and Systems Engineering and the role of I & SE Engineers in the industrialized society by dealing with various topics in that area. The class is processed using several formats such as lectures, designs, and field trips.	In-person + Online		Fri.5.5-8.0/13:30-16:30
2021	2	Undergraduate	College of Engineering	ISE2023-01	3.0	Information Systems Analysis and Design	This course deals with the methodologies, techniques, and software tools for analysis, design and implementation of modern information systems. Students will have chances to master the lecture contents through various in-class exercises, homework/lab assignments, and team-project activities.	In-person + Online		Fri.2.5-5.0/10:30-13:30
2021	2	Undergraduate	College of Engineering	ISE4005-01	3.0	Advanced Manufacturing Processes	In the manufacturing area nowadays, a new manufacturing system has been established and practiced using the information technology. In this class, students will have the basic understanding of modern manufacturing systems based on the traditional manufacturing systems. Homeworks and team projects are given to provide the experience of modern manufacturing systems.	Online		Wed.7.0-8.0/15:00-16:30, Fri.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	ISE4018-01	3.0	Logistics	This course handles the methodologies that enables firms to deal with materials, supply chain, and resources that decides the competitive power. Various supply chains consisting of materials providers, producers, logistic channels and consumers, are considered in the viewpoint of how mathematical computational optimization concepts can be implemented.	In-person		Fri.5.5-8.0/13:30-16:30
2021	2	Undergraduate	College of Engineering	ISE4022-01	3.0	Product Development	We study the fundamental theory and application of the product development. Students are required to develop a new product by applying the process covered in the class. Some tools for the product development include CAD and Rapid Prototyping. Also, some topics on PLM(Product Lifecycle Management) are to be studied.	In-person		Mon.4.0-5.0/12:00-13:30, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Engineering	ISE4023-01	3.0	Technology Management	This course deals with a broad spectrum of managerial issues associated with forecasting promising technology, evaluating technological assets, managing R&D projects, planning new product development, devising technology strategies and so on. For this, it emphasizes on theoretical backgrounds, practical cases and intensive interactions among students.	In-person + Online		Tue.5.5-8.0/13:30-16:30
2021	2	Undergraduate	College of Engineering	ISE4028-01	3.0	Database Analysis and Design	This course deals with the fundamental models, techniques, and tools for analysis, design and implementation of database systems, which is an essential component of modern information systems. Students will have chances to master the lecture contents through various in-class exercises, homework/lab assignments, and a team project.	In-person + Online		Mon.5.5-8.0/13:30-16:30
2021	2	Undergraduate	College of Engineering	ISE4038-01	3.0	Quality Engineering	This course is an introduction to the theory and applications of quality management and quality control techniques. Topics include: quality management system, quality plan, statistical process control, sampling plans, reliability analysis, 6 sigma techniques.	In-person + Online		Thu.5.5-8.0/13:30-16:30
2021	2	Undergraduate	College of Law	LAW4150-01	3.0	Electronic Commerce Law on the Internet	Electronic commerce is now ever increasing its market share with the advent of information society, so are the legal issues waiting to be solved. This class deals with these issues and their legal framework, especially among others electronic contract, electronic signature, consumer protection, and electronic financial finance.	Online	Seoul	Tue.11.0-13.5/18:50-21:30
2021	2	Undergraduate	College of Law	LAW4155-01	3.0	International Dispute Law	The UN Charter explicitly burdens the obligations for all state members to solve any international dispute being regarded as a fundamental principle of modern international law. Regarding this important principle of international law, this course will deal with various modes of dispute settlement mechanisms and remedies including judicial and non-judicial ones. The aims of this course are for the students not only to enhance basic knowledge on various judicial institutions including the International Court of Justice, the Permanent Court of Arbitration, the Dispute Settlement Body of the World Trade Organization, and other international criminal courts and tribunals but also to reinforce the ability to review the limits and problems of them in critical point of view.	Online	Seoul	Tue.7.0-8.0/15:00-16:30, Thu.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Natural Sciences	MAT2023-01	3.0	Computational applied mathematics	List manipulation, Assignment and rules, Data types, Writing function, Local variables, Procedural programming, Pattern matching, Anonymous functions, Traps, Pitfalls, mol Debugging.	Online	Seoul	Mon.8.0-9.5/16:00-18:00, Thu.8.0-9.5/16:00-18:00
2021	2	Undergraduate	College of Natural Sciences	MAT2027-01	3.0	Vector Analysis	The topics in this course are vector-valued function, linear transformation, quadratic form, differentiation on , line integral, double integral, surface, area, surface integral, Green theorem, Stokes theorem.	In-person + Online	Seoul	Mon.5.0-6.0/13:00-14:30, Fri.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Natural Sciences	MAT4014-01	3.0	Real Analysis	Differentiation, L'Hospital's theorem, Mean value theorem, Riemann-Stieltjes integral, Improper integral, Infinite integral, Measure, Lebesgue integral, Convergence, Uniform convergence, infinite series and Convergent test.	In-person	Seoul	Mon.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Natural Sciences	MAT4025-01	3.0	Applied Numerical Analysis	Numerical analysis involves the study of methods of computing numerical data. In many problems this implies producing a sequence of approximations; thus the questions involve the rate of convergence, the accuracy of the answer, and the completeness of the response.	In-person + Online	Seoul	Mon.6.0-7.5/14:00-16:00, Thu.6.0-7.5/14:00-16:00
2021	2	Undergraduate	College of Natural Sciences	MAT4030-01	3.0	Differential Geometry II	Coordinate patch, Simple surfaces, Tangent plane and the normal vectors, First and second fundamental forms, Principal curvatures, Gaussian and mean curvatures, Rodrigue formula, Gauss-Weigarten equation, Fundamental theorem of surfaces, Manifolds, Tensors and Gauss-Bonnet theorem.	In-person	Seoul	Mon.8.0-9.0/16:00-17:30, Thu.8.0-9.0/16:00-17:30
2021	2	Undergraduate	College of Natural Sciences	MAT4038-01	3.0	Numerical Linear Algebra	This course will cover several solutions of linear system of equations such as Gaussian elimination, pivoting, LU decomposition, iteration methods. It will also cover least square methods, high dimensional Newton methods, eigenvalue problem, matrix diagonalization, QR decomposition, singular value decomposition.	In-person	Seoul	Wed.2.5-4.0/10:30-12:30, Fri.3.5-5.0/11:30-13:30
2021	2	Undergraduate	College of Natural Sciences	MAT4039-01	3.0	Differential Equation	The topics in this course are existence and uniqueness theorem, series solution, linear system of differential equation, nonlinear differential equation, stability.	In-person + Online	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Natural Sciences	MAT4043-01	3.0	Modern Topology	Intuitive description of topology, including networks and maps, topological equivalence, classification of surfaces, spheres with handles, Jordan curve theorem, transformations, and fixed-point theorems.	In-person	Seoul	Wed.6.0-7.0/14:00-15:30, Fri.2.0-3.0/10:00-11:30
2021	2	Undergraduate	College of Natural Sciences	MAT4048-01	3.0	Modern Algebra II	This course gives continuation of Modern Algebra I. It deals with Euclidian domain, Principal ideal domains, Unique factorization domains, Sylow theorem, Field extensions, Galois theory, and insolubility of quintic.	In-person	Seoul	Tue.1.0-2.0/09:00-10:30, Thu.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Natural Sciences	MAT4049-01	3.0	Partial Differential Equations	In this course, students are introduced to the fundamental theories of partial differential equations (PDE). In addition, Fourier transform, linear PDE, Cauchy-Kovalevsky theorem, Laplace equation, maximum principle, Sobolev spaces and second-order elliptic PDE are discussed.	In-person + Online	Seoul	Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	MEC2011-01	3.0	Kinematics	Kinematics is the study of the geometry of motion and the base of the design of mechanisms and machinery. Kinematic analysis involves determination of position, displacement, rotation, speed, velocity, and acceleration. Students are encouraged to participate in the design project of simple mechanism as a team, where they learn how to use the knowledge and to communicate with the other members in the same team.	In-person		Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	MEC2012-01	3.0	Dynamics	Dynamics is the study on the motion of mechanical system. This course deals with the dynamic modeling method for the dynamic analysis of such mechanical system. To this end, we study kinematics and kinetics of a particle and rigid body.	In-person + Online		Mon.5.0-6.0/13:00-14:30, Thu.6.5-7.5/14:30-16:00
2021	2	Undergraduate	College of Engineering	MEC2012-02	3.0	Dynamics	Dynamics is the study on the motion of mechanical system. This course deals with the dynamic modeling method for the dynamic analysis of such mechanical system. To this end, we study kinematics and kinetics of a particle and rigid body.	In-person + Online		Mon.6.5-7.5/14:30-16:00, Thu.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Engineering	MEC2015-01	3.0	Fluid Mechanics	The objective of this course is to introduce the properties of fluids as an incompressible continuum and apply Euler's method of analysis to several types of internal and external flows.	In-person		Wed.7.0-8.0/15:00-16:30, Thu.5.0-6.0/13:00-14:30
2021	2	Undergraduate	College of Engineering	MEC2015-02	3.0	Fluid Mechanics	The objective of this course is to introduce the properties of fluids as an incompressible continuum and apply Euler's method of analysis to several types of internal and external flows.	In-person		Wed.5.5-6.5/13:30-15:00, Thu.6.5-7.5/14:30-16:00
2021	2	Undergraduate	College of Engineering	MEC2025-01	3.0	Introduction to MATLAB for Mechanical Engineers	The objective of this course is twofold. First, introduce the language and features of MATLAB as an analyzing tool and second, introduce and reinforce the problem solving methodology as practiced by engineers.	In-person + Online		Thu.2.5-3.5/10:30-12:00, Thu.8.5-11.0/16:30-19:15
2021	2	Undergraduate	College of Engineering	MEC2025-02	3.0	Introduction to MATLAB for Mechanical Engineers	The objective of this course is twofold. First, introduce the language and features of MATLAB as an analyzing tool and second, introduce and reinforce the problem solving methodology as practiced by engineers.	In-person + Online		Fri.2.5-3.5/10:30-12:00, Fri.8.0-10.5/16:00-18:50

2021	2	Undergraduate	College of Engineering	MEC2031-01	3.0	Advanced Mechanics of Materials	Fundamental principles of mechanics of materials are applied to analyze the stress and strain for shaft, beam and column. Energy methods are studied for analyzing impact loading. The main objective of this course is to develop the ability to apply for the design of machine components and structures.	Online		Tue.6.5-7.5/14:30-16:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Engineering	MEC4032-01	3.0	Vibrations and Noise	Elementary theories of mechanical vibration, analysis of vibration characteristics of machines are studied. Vibration suppression design for improving machine's endurance and safety are also covered.	Online		Mon.5.0-6.0/13:00-14:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Engineering	MEC4065-01	3.0	Special Design	This course is a prerequisite for capstone design track-project. Students have chance to learn and practice various design methods and presentation skills as a team player.	In-person + Online		Mon.2.0-3.5/10:00-12:00, Wed.10.5-12.0/18:25-20:05
2021	2	Undergraduate	College of Engineering	MEC4065-02	3.0	Special Design	This course is a prerequisite for capstone design track-project. Students have chance to learn and practice various design methods and presentation skills as a team player.	In-person + Online		Mon.10.5-12.0/18:25-20:05, Wed.8.0-9.5/16:00-18:00
2021	2	Undergraduate	College of Engineering	MEC4068-01	3.0	Combustion and Fuel Cell	Based on the knowledge of fuels and combustion, fundamental features of internal combustion engine and fuel cell vehicles are learned together with hybrid cars. Detailed subjects also include intake, exhaust and cooling systems.	In-person + Online		Mon.4.0-5.0/12:00-13:30, Tue.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Engineering	MEC4080-01	4.0	Capstone Design Track-Project	Students develop the ability of problem-solving techniques of real product design and experience working in teams to carry out their own project for practical world.	In-person + Online		Tue.8.5-15.0/16:30-22:45
2021	2	Undergraduate	College of Engineering	MEC4089-01	3.0	Digital Manufacturing	This course provides an introduction to the manufacturing process for engineering materials to understand the fundamentals of technical considerations involved in manufacturing products through a literature review and maker processes.	In-person + Online		Wed.6.5-7.5/14:30-16:00, Fri.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Engineering	MEC4093-01	3.0	Soft Robotics	Soft robots can adapt to external conditions through structural reconfiguration or variation of their mechanical properties, which made from highly compliant materials or multiple hard-bodied parts. This course covers the fundamentals of materials, fabrication methods, mechanisms and simulations of soft robots. Finally, we will discuss how to realize and embody the theories on the design methodology of soft robots.	In-person + Online		Wed.5.0-6.0/13:00-14:30, Fri.2.0-3.0/10:00-11:30
2021	2	Undergraduate	College of Engineering	MEC4096-01	3.0	Control Theory	Investigate the governing factors of automatic controller on robot systems. The course provides understanding linear model, feedback control, designing PID controller to understand mechanism, dynamics, trajectory planning of robots for lab practice	Online		Thu.5.0-6.0/13:00-14:30, Fri.7.0-8.0/15:00-16:30
2021	2	Undergraduate	Dongguk Business School	MGT4049-01	3.0	Business Strategy	The objective of this course is to make students to have integrated and strategic perspectives about management of organizations. Through lectures, case study, class discussions, and exercises, students develop abilities to analyze market trends and business environments and to make strategic alternatives. Therefore, this strategy management course encourages students to apply principles and theories learned from class to real-world context, which in turn improve their abilities to deal with rapidly changing business environments. At the end of the class, students can recognize the importance of strategies in terms of organizational competitiveness. The content of this course consists of competitive strategy, analysis of competitive advantage, and strategy formulation and implementation.	Online	Seoul	Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	Dongguk Business School	MGT4053-02	3.0	Human Resource Management	The course provides an overview of theoretical backgrounds that underlie human resource management system. Furthermore, by surveying advantages and disadvantages of human resource policies and practices, students learn the importance of human capital to the competitiveness of organizations. In addition, business environments such as cultures, norms, and customs determine the characteristics of human resource management system. In this course, students learn how Korean companies adapt theories from U.S and Europe to be compatible with their unique characteristics and environments.	In-person + Online	Seoul	Wed.7.0-9.5/15:00-18:00
2021	2	Undergraduate	Dongguk Business School	MGT4072-01	3.0	Marketing Communication (Capstone Design)	This course aims to understand the field of advertising and promotion from an integrated marketing communications perspective. The followings are examined, in particular: advertising, direct and interactive marketing, use of the Internet and new media, public relations, trade promotion, and consumer promotion.	TBA	Seoul	Tue.5.5-6.5/13:30-15:00, Tue.7.0-8.0/15:00-16:30, Thu.5.5-6.5/13:30-15:00, Thu.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Engineering	MME2044-01	3.0	Multimedia Algorithm	The course covers techniques for efficient algorithm design, including divide-and-conquer, dynamic programming, greedy algorithms, and time/space analysis. It deals with advanced data structures and their operations such as multidimensional data structures, game trees, state space tree and finite state machine, and several algorithms including string matching, internal and external searching, internal and external sorting, finding shortest path finding and minimum-cost spanning trees. We will gain some abilities of solving problems by programming them	In-person + Online		Tue.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Engineering	MME2045-01	3.0	Introduction to Programming in C	This course is targeted to the students who have no or very little programming knowledge and experience. The goal of this course is to get you familiar with programming concepts at a relatively slow pace. In this course you will learn how to use computers to solve computational problems, by writing programs for the computer using the ANSI C programming language. We will explore the basic concepts of computer systems, algorithm design, data types, and program structures.	In-person		Tue.5.5-7.0/13:30-15:30, Thu.2.5-4.0/10:30-12:30
2021	2	Undergraduate	College of Engineering	MME4081-01	3.0	Multimedia Image Processing	Based on primitive knowledge of still images learned earlier, a variety of middle-level still image processing technologies and introductory processing technologies of moving image are presented. In addition, experimental practices are given to understand images wide as a stand point of programmer by programming the learned image processing algorithms with C or C++.	Online		Mon.7.0-8.0/15:00-16:30, Wed.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Engineering	MME4112-01	3.0	Robot Software Engineering	The design patterns and software engineering is the essential theories to design large-scale software projects. In this course, students learn design patterns, software engineering, and a series of processes for applying them to robots. Additionally, students learn various design patterns and UML design techniques, and method to apply them to robotics.	In-person + Online		Tue.2.5-3.5/10:30-12:00, Thu.5.5-6.5/13:30-15:00
2021	2	Undergraduate	College of Social Sciences	NOR4021-01	3.0	Comparative Study between North and South Korean Political System	Compares North Korean socialism and South Korean capitalism based on political, economic, social, and cultural points of view, and finds how to integrate the two different systems of North and South Korea.	In-person	Seoul	Wed.7.0-9.5/15:00-18:00
2021	2	Undergraduate	College of Arts	PAI2016-01	2.0	Fundamental Painting 2	A continuation of Fundamental Painting1. Students are exposed to the origins and purposes of painting and the range of possibilities offered by both traditional and contemporary approaches.	In-person	Seoul	Thu.2.0-4.5/10:00-13:00
2021	2	Undergraduate	College of Humanities	PHI4027-01	3.0	Philosophy of History and Culture	The course examines the fundamental problems with the philosophy of history through the concepts and theories of the well-known philosophers. It studies the subjects of explanation of historical laws, of facts and truth in history, of the objectivity of historical facts, and so on.	Online	Seoul	Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Humanities	PHI4078-01	3.0	Phenomenology and the Philosophy of Mind	Phenomenology and the Philosophy of mind is a branch of philosophy that studies the nature of the mind, mental events, mental functions, mental properties, consciousness, and their relationship to the physical body, particularly the brain. The mind-body problem, i.e. the relationship of the mind to the body, is commonly seen as one key issue in the philosophy of mind, although there are other phenomenological issues concerning the nature of the mind that do not involve its relation to the physical body, such as how consciousness is possible and the nature of particular mental states.	In-person + Online	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Humanities	PHI4080-01	3.0	Philosophy of Cognitive Science	The aim of this course is on understanding the cognitive science and philosophical problems raised in this field. We look at various philosophical issues relating to the scientific study of cognition and the brain. Questions about the nature of cognition itself, the methodology of cognitive science and the role of cognitive science in society will be considered.	Online	Seoul	Tue.7.0-9.5/15:00-18:00
2021	2	Undergraduate	College of Natural Sciences	PHY4001-01	3.0	Electromagnetism 2	In this subject, the basic theories and equations of electrodynamics are introduced from the set of equations of the electrostatics discussed in E&M I. The famous Maxwell equations are derived and it is shown that electromagnetic waves can propagate in free space as the result of the Maxwell equations. It is shown that the propagation of electromagnetic waves in different media as well as reflection and refraction can be explained by the solutions of Maxwell equation and the boundary conditions.	In-person	Seoul	Mon.2.0-3.0/10:00-11:30, Wed.1.5-2.5/09:30-11:00
2021	2	Undergraduate	College of Natural Sciences	PHY4005-01	3.0	Thermal & Statistical Physics 2	The purpose of statistical physics is to understand macroscopic behaviors of many particles in terms of microscopic viewpoints of each particle which is governed by basic principles in physics. This course covers classical and quantum statistical mechanics, and simple applications on the basis of thermal physics I. The detailed topics are kinetic theory and transport processes in gases, magnetic properties of materials, partition function, thermal properties of materials, and low temperature physics with quantum mechanical treatments.	In-person	Seoul	Tue.4.5-5.5/12:30-14:00, Thu.4.5-5.5/12:30-14:00
2021	2	Undergraduate	College of Natural Sciences	PHY4012-01	3.0	Quantum Physics 2	The concept and physical meaning of quantum mechanics will be more deeply studied through this lecture, and the presentation and the discussion with students will be mainly performed. All student should be attended to the subject discussions.	In-person	Seoul	Tue.3.0-4.0/11:00-12:30, Thu.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Natural Sciences	PHY4016-01	3.0	Nuclear Physics II	β -decay -Directreaction theory -Compound nuclear theory.	in-person	Seoul	Mon.7.5-8.5/15:30-17:00, Wed.7.5-8.5/15:30-17:00

2021	2	Undergraduate	College of Natural Sciences	PHY4019-01	3.0	Particle Physics	Fundamental structure of matter will be explored. Elementary particles and their interactions are introduced along with theoretical concepts such as quantum theory and relativity. Basic experimental method will be also covered.	In-person	Seoul	Mon.4.5-5.5/12:30-14:00, Wed.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Natural Sciences	PHY4020-01	3.0	Solid State Physics II	This course is after taking the solid state physics deal with the Fermi gas in metal of free electron model, energy band, semiconductor, Fermi surface and metal, Plasmon, polariton and polaron of optical processes, exciton, superconductivity, and so on..	Online	Seoul	Tue.6.0-7.0/14:00-15:30, Thu.6.0-7.0/14:00-15:30
2021	2	Undergraduate	College of Natural Sciences	PHY4047-01	3.0	Physics of Energy	This course is designed to provide a fundamental and systematic introduction to the scientific principles and concepts related to the Physics of Energy. It will cover the following scopes: the introduction and recent trends of energy sources, the operating principles and mechanism of energy devices and systems, the basic interdisciplinary study and knowledge of physics, chemistry and materials science for improving energy generation and conversion efficiency.	In-person	Seoul	Mon. 6.0-7.0/14:00-15:30 Wed. 6.0-7.0/14:00-15:30
2021	2	Undergraduate	College of Pharmacy	PMY2011-01	2.0	Physical Chemistry 2	This course deals with the application of the principles of physical chemistry to pharmaceutical problems and phenomena. The lecture includes diffusion, complexation, dispersion, adsorption, and interfacial phenomena. Also included micrometris, rheology, colloids and drug produc design.	In-person + Online		Mon.5.0-6.5/13:00-15:00
2021	2	Undergraduate	College of Pharmacy	PMY2024-01	2.0	Pharmaceutical Analysis 2	Students will learn fundamental methods for data handling, stoichiometric calculation, volumetric analysis by acid-base titration, precipitation titration, redox titration, and complex formation, and gravimetric analysis.	In-person + Online		Wed.5.0-6.5/13:00-15:00
2021	2	Undergraduate	College of Pharmacy	PMY2025-01	2.0	Pharmaceutical Biochemistry 2	In this course, we study the synthesis, degradation, function and interaction of various genes and proteins, and the in vivo role of lipids and carbohydrates.	Online		Mon.2.0-3.5/10:00-12:00
2021	2	Undergraduate	College of Pharmacy	PMY2027-01	3.0	Synthetic Pharmaceutical Chemistry 1	This course aims to cultivate general knowledge on the unit reactions of advanced organic chemistry required for the research and development of new drugs. Students will acquire knowledge on synthetic methods of pharmaceuticals and structure-activity relations of drugs.	In-person + Online		Tue.5.5-6.5/13:30-15:00, Fri.2.0-3.0/10:00-11:30
2021	2	Undergraduate	College of Pharmacy	PMY4015-01	3.0	Medicinal Chemistry1	Medicinal chemistry concerns discovery, development, identification, and interpretation of the mode of action of biologically active compounds including drugs at the molecular level. Medicinal chemistry is a highly interdisciplinary research area incorporating different branches of chemistry and biology in the research for better and new drugs (Drug Discovery). In this course, students will learn and understand physicochemical properties, pharmacodynamics and pharmacokinetics, modes of action, structure and activity relationships of various drugs in wide use in clinic and develop insight to and research capability for drug discovery and development.	In-person + Online		Mon.2.0-3.0/10:00-11:30, Wed.2.0-3.0/10:00-11:30
2021	2	Undergraduate	College of Pharmacy	PMY4020-01	2.0	Pharmaceutical Engineering	This course deals with the principles and practices of pharmaceutical operations including extraction, sterilization, drying, sizing and handling of powders, compression and encapsulation. In addition, this course covers the equipments used in unit operations and their characteristics.	In-person + Online		Fri.2.0-3.5/10:00-12:00
2021	2	Undergraduate	College of Pharmacy	PMY4042-01	2.0	Biodrugs	The present course is intended to provide the principle and methodology underlying the drug development through biotechnology. Also we will see which biodrugs are currently on the market and their economical values.	In-person + Online		Thu.1.0-2.5/09:00-11:00
2021	2	Undergraduate	College of Pharmacy	PMY4050-01	2.0	Geriatric Pharmacy	This course will cover understanding the differences between the elderly and other general adults, and optimal pharmacotherapy for geriatric patients in various clinical situations.	In-person + Online		Thu.5.5-7.0/13:30-15:30
2021	2	Undergraduate	College of Pharmacy	PMY4103-01	2.0	Pharmacotherapy of New Drugs	Learn about the global new drug development process and the therapeutic areas, mechanisms of action, side effects, and drug interactions that are characteristic of new drugs within five years of FDA approval. Learn how to share your drug information with the public by sharing it on YouTube or Wikipedia.	Online		Mon.5.0-6.5/13:00-15:00
2021	2	Undergraduate	College of Social Sciences	POL2022-01	3.0	Political Seminar	This course help Political ideology, theory and methodology, Korea politics, comparative politics, international politics, such as the overall understanding of politics.	TBA	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Social Sciences	POL2029-01	3.0	Theories of International Politic	This course introduces 'International Relations' on the Global network, acting various transnational actors. Also it helps students to understand International Political Theories.	TBA	Seoul	Tue.6.0-7.0/14:00-15:30, Thu.6.0-7.0/14:00-15:30
2021	2	Undergraduate	College of Social Sciences	POL4041-01	3.0	Comparative Democracy	The birth and growth of democracy has been one of the central tasks in the study of politics. This course is intended to examine the main topics and readings on democracy within the field of comparative politics. To this end, this course will review major works ? conceptual, theoretical, methodological, and empirical ? on democracy in order to gain a proper understanding of the divergent approaches, dominant themes, and controversial issues that surround the current literature on the subject.	Online	Seoul	Mon. 9.0-10.0/17:00-18:25 Wed. 9.0-10.0/17:00-18:25
2021	2	Undergraduate	College of Social Sciences	POL4045-01	3.0	European Politics	This course introduces students to contemporary European politics. The focus is on the politics of major European states and the development of the European Union (EU). The first part of the course examines the political systems of major European states. Political debates in these countries concerning European integration will receive particular attention. The second part of the course concentrates on the EU: its historical development, its main institutions, and the biggest issues and debates facing the EU today (e.g. enlargement and relations with the rest of the world). The course will examine why the development of the EU has been so controversial. It also considers how the EU will develop in future. Will the EU remain an institution characterised by negotiation and cooperation between sovereign states? Or will it develop into a federal state, becoming an economic and military superpower.	TBA	Seoul	Tue.7.5-8.5/15:30-17:00, Thu.7.5-8.5/15:30-17:00
2021	2	Undergraduate	College of Social Sciences	POL4082-01	3.0	Democratization, Civil Wars, and Coups d'etat	This course provides opportunities to discuss about theories to explain domestic political instability and to apply those theories to real-world cases.	In-person	Seoul	Fri.4.0-6.5/12:00-15:00
2021	2	Undergraduate	College of Police and Criminal Justice	POS2011-01	3.0	Community Policing	This course is about the community policing which is contrasted with the traditional policing. This class provides the knowledge of the meaning and characteristics, transition process and examples of community policing.	Online		Fri.1.0-3.5/09:00-12:00
2021	2	Undergraduate	College of Police and Criminal Justice	POS4008-01	3.0	Theory of Violent Crimes	This course aims at exploring democratic characteristics of violent offenders. The processes and consequences of violence will be deeply discussed in the context of current criminological theory and practice. The nature, theory, psychology and history of violent behavior will also be analyzed through a study of crimes of violence including homicide, rape, assault, and robbery.	Online		Wed.6.0-8.5/14:00-17:00
2021	2	Undergraduate	General Educaion	PRI5016-01	3.0	Academic Reading and Discussion	Course Description Unavailable	TBA	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.3.0-4.0/11:00-12:30
2021	2	Undergraduate	General Educaion	PRI5016-02	3.0	Academic Reading and Discussion	Course Description Unavailable	TBA	Seoul	Mon.8.5-9.5/16:30-18:00, Wed.6.0-7.0/14:00-15:30
2021	2	Undergraduate	General Educaion	PRI5017-01	3.0	Academic Listening and Discussion	Course Description Unavailable	TBA	Seoul	Tue.8.0-9.0/16:00-17:30, Thu.8.5-9.5/16:30-18:00
2021	2	Undergraduate	General Educaion	PRI5017-02	3.0	Academic Listening and Discussion	Course Description Unavailable	TBA	Seoul	Wed.8.0-9.0/16:00-17:30, Fri.8.0-9.0/16:00-17:30
2021	2	Undergraduate	General Educaion	PRI5073-01	3.0	Current Issues and Discussion	Course Description Unavailable	TBA	Seoul	Tue 6.0-7.0/14:00-15:30 Fri 6.0-7.0/14:00-15:30
2021	2	Undergraduate	General Educaion	PRI5073-02	3.0	Current Issues and Discussion	Course Description Unavailable	TBA	Seoul	Tue 8.0-9.0/16:00-17:30 Thu 8.5-9.5/16:30-18:00
2021	2	Undergraduate	General Educaion	PRI5074-01	3.0	English through Films	The course focuses on speaking and listening skills facilitated through the medium of film. Students will discuss issues surrounding films, as well as plotlines, characters, and direction. Creativity is encouraged, and students will have an opportunity to design, plan, and direct their own short film.	In-person + Online	Seoul	Mon. 8.5-9.5/16:30-18:00 Wed. 6.0-7.0/14:00-15:30
2021	2	Undergraduate	General Educaion	PRI5075-01	3.0	Academic Wrting	This course is designed to guide students through the process of academic writing, beginning with basic paragraph structure before moving onto full essays later in the semester. Students will be introduced to the core principles of effective and efficient writing, including drafting, organising, and revising their texts. The course will cover a variety of essay styles, including classification essays, cause-effect essays, comparison essays, and problem-solution essays.	TBA	Seoul	Tue 4.0-5.0/12:00-13:30 Thu 4.0-5.0/12:00-13:30
2021	2	Undergraduate	General Educaion	PRI5075-02	3.0	Academic Wrting	This course is designed to guide students through the process of academic writing, beginning with basic paragraph structure before moving onto full essays later in the semester. Students will be introduced to the core principles of effective and efficient writing, including drafting, organising, and revising their texts. The course will cover a variety of essay styles, including classification essays, cause-effect essays, comparison essays, and problem-solution essays.	In-person + Online	Seoul	Tue 8.0-9.0/16:00-17:30 Thu 8.5-9.5/16:30-18:00
2021	2	Undergraduate	General Educaion	PRI5076-01	3.0	Business Writing	This course focuses on the practice and study of selected types of discourse employed in professional business situations and helps prepare students for different kinds of writing they will encounter in their professional lives. Much of the course is conducted in a workshop format.	TBA	Seoul	Tue 4.0-5.0/12:00-13:30 Thu 4.0-5.0/12:00-13:30
2021	2	Undergraduate	General Educaion	PRI5076-02	3.0	Business Writing	This course focuses on the practice and study of selected types of discourse employed in professional business situations and helps prepare students for different kinds of writing they will encounter in their professional lives. Much of the course is conducted in a workshop format.	In-person + Online	Seoul	Tue 6.0-7.0/14:00-15:30 Fri 6.0-7.0/14:00-15:30

2021	2	Undergraduate	General Educaion	PRI5079-01	3.0	English Conversation 3	1. To improve students' command of spoken English, by providing frequent opportunities for discussion. 2. To build on students' vocabulary and increase their range of expression. 3. To review and practice necessary grammar structures. 4. To improve students' listening skills so that they can understand a wide range of spoken texts. 5. To upgrade students' writing skills. Students will practice writing emails, letters and simple paragraphs. 6. To enhance students' reading skills with a variety of magazine-type texts	Online	Seoul	Mon.8.5-9.5/16:30-18:00, Wed.6.0-7.0/14:00-15:30
2021	2	Undergraduate	General Educaion	PRI5079-02	3.0	English Conversation 3	1. To improve students' command of spoken English, by providing frequent opportunities for discussion. 2. To build on students' vocabulary and increase their range of expression. 3. To review and practice necessary grammar structures. 4. To improve students' listening skills so that they can understand a wide range of spoken texts. 5. To upgrade students' writing skills. Students will practice writing emails, letters and simple paragraphs. 6. To enhance students' reading skills with a variety of magazine-type texts	In-person + Online	Seoul	Tue.4.0-5.0/12:00-13:30, Thu.4.0-5.0/12:00-13:30
2021	2	Undergraduate	General Educaion	PRI5080-01	3.0	English Conversation 4	1. To improve students' command of spoken English, by providing frequent opportunities for discussion. 2. To build on students' vocabulary and increase their range of expression. 3. To review and practice necessary grammar structures. 4. To improve students' listening skills so that they can understand a wide range of spoken texts. 5. To upgrade students' writing skills. Students will practice writing emails, letters and simple paragraphs. 6. To enhance students' reading skills with a variety of magazine-type texts.	In-person + Online	Seoul	Mon.8.5-9.5/16:30-18:00, Wed.6.0-7.0/14:00-15:30
2021	2	Undergraduate	General Educaion	PRI5080-02	3.0	English Conversation 4	1. To improve students' command of spoken English, by providing frequent opportunities for discussion. 2. To build on students' vocabulary and increase their range of expression. 3. To review and practice necessary grammar structures. 4. To improve students' listening skills so that they can understand a wide range of spoken texts. 5. To upgrade students' writing skills. Students will practice writing emails, letters and simple paragraphs. 6. To enhance students' reading skills with a variety of magazine-type texts.	Online	Seoul	Tue.8.0-9.0/16:00-17:30, Thu.8.5-9.5/16:30-18:00
2021	2	Undergraduate	General Educaion	PRI5097-01	3.0	OPic	This course will provide the practical sense and english speaking and listening. Especially, this course is specialized for the students who are the preparing for Employment. The objective of this course is to improve the verbal communication skills. Also, it is for helping the students to gain confidence and a test of proficiency in English.	in-person	Seoul	Tue.8.0-9.0/16:00-17:30, Thu.8.5-9.5/16:30-18:00
2021	2	Undergraduate	General Educaion	PRI5097-02	3.0	OPic	This course will provide the practical sense and english speaking and listening. Especially, this course is specialized for the students who are the preparing for Employment. The objective of this course is to improve the verbal communication skills. Also, it is for helping the students to gain confidence and a test of proficiency in English.	In-person + Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Natural Sciences	PSS2005-01	3.0	Introduction to Electricity and Magnetism	The goal of this course is to understand electromagnetic phenomena in vacuum and materials. Electric field, potential, electric transport in materials, electromagnetic laws, electromagnetic induction, Maxwell equation, radiation in materials are covered.	Online	Seoul	Wed.4.5-5.5/12:30-14:00, Fri.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Social Sciences	PUB2011-01	3.0	Policy Formation and AI(Adventure Design)	This course explores the impact of economic and political factors on public policy formulation and implementation. It uses intensive analysis, normative, and decision making models of the policy process, with special emphasis on their relationship with current policy problems.	Online	Seoul	Mon.8.5-9.5/16:30-18:00, Thu.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Social Sciences	PUB4040-01	3.0	Financial Administration	In this course, students learn about the fiscal role of the government in a mixed economy, sources of public revenue and credit; administrative, political and institutional aspects of the budget and the budgetary process; problems and trends in intergovernmental financial relations.	Online	Seoul	Mon.1.0-2.0/09:00-10:30, Wed.1.0-2.0/09:00-10:30
2021	2	Undergraduate	College of Social Sciences	PUB4042-01	3.0	Local Administration(Capstone Design)	For the purpose of supporting local governments for smooth local administration, the Local Administration Bureau carries out various measures: promoting decentralization, designing an ideal local administration system, improving the existing local administration system, positively promoting municipal mergers, developing a network system for Basic Resident Registers, encouraging regional revitalization, promoting the regional IT revolution, promoting regional internationalization, and establishing and improving the local public service personnel system. Urban administration is a synthetic study that covers most social studies to manage complicated cities. Urban administration is wider than public administration. As a city develops, citizen's demand becomes more complicated.	Online	Seoul	Mon.2.5-3.5/10:30-12:00, Tue.8.5-9.5/16:30-18:00
2021	2	Undergraduate	College of Social Sciences	PUB4052-01	3.0	Quantitative Methods for Public Administration (Capstone Design)	The aim of this course is to understand quantitative methods required for the study of public administration. The main contents include the basic elements of statistics, variance analysis, correlation analysis, and regression analysis.	Online	Seoul	Fri.2.5-3.5/10:30-12:00, Fri.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Natural Sciences	SEM2006-01	3.0	Semiconductor Physics	The study on crystal structures, energy band theory, electrons and holes, impurities in semiconductors, quantum statistics, and transportations of charges under equilibrium and non-equilibrium condition.	In-person + Online	Seoul	Tue.3.0-4.0/11:00-12:30, Thu.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Natural Sciences	SEM4009-01	3.0	Semiconductor Devices and Lab 2	The theoretical and experimental studies on physical properties and operating principles for the field effect transistors like as MESFET, JFET, MOSFET.	In-person + Online	Seoul	Tue.7.5-9.0/15:30-17:30, Thu.7.5-9.0/15:30-17:30
2021	2	Undergraduate	College of Natural Sciences	SEM4015-01	3.0	Principle of Display Devices and Engineering	The study and understanding on operating principles and structures for flat panel display devices like as TFT-LCD, OLED, FED.	Online + In-person	Seoul	Tue.3.0-4.0/11:00-12:30, Thu.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Natural Sciences	SEM4062-01	3.0	Introductory Memory Devices and Materials	To teach fundamentals of semiconductor-based memory devices and to introduce novel memory devices which are recently developed.	In-person + Online	Seoul	Tue.4.5-5.5/12:30-14:00, Thu.4.5-5.5/12:30-14:00
2021	2	Undergraduate	College of Natural Sciences	SEM4069-01	3.0	System Semiconductor Design	Recently, most of the electronic systems are integrated into a semiconductor chip. Specially, the conventional big modules are changed into small chips in the field of communication, control, and computer. Thus we study the system semiconductor design. After we study the basic theory of a system, the principle of communication, the basic characteristics of a control, and the computer theory, the design methodology is discussed.	Online	Seoul	Wed.5.0-6.0/13:00-14:30, Fri.7.0-8.0/15:00-16:30
2021	2	Undergraduate	College of Natural Sciences	SEM4076-01	3.0	Analysis of Semiconductor Materials	Studying the various spectroscopic methods for characterizing semiconductors.	In-person + Online	Seoul	Tue.1.5-2.5/09:30-11:00 Thu.1.5-2.5/09:30-11:00
2021	2	Undergraduate	College of Social Sciences	SOW2029-01	3.0	History of Social Welfare	Explores historical changes, development of the concepts, and reality of welfare system in Korea and western countries and how social welfare system was influenced by the circumstance of each period.	In-person	Seoul	Mon.3.0-4.0/11:00-12:30, Wed.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Social Sciences	SSC2002-02	3.0	Introduction to Economics	Principles of Economics" studies basic economic theories and applications in microeconomics and macroeconomics. Microeconomics is to understand rational decisions of individuals and firms, and the conditions and limitations of markets which are operated by individuals and firms. Macroeconomics covers economic variables important for national economy and the relationship among them, as well as the role of government policies in economies.	TBA	Seoul	Mon.2.5-3.5/10:30-12:00, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Social Sciences	SSC2002-03	3.0	Introduction to Economics	Principles of Economics" studies basic economic theories and applications in microeconomics and macroeconomics. Microeconomics is to understand rational decisions of individuals and firms, and the conditions and limitations of markets which are operated by individuals and firms. Macroeconomics covers economic variables important for national economy and the relationship among them, as well as the role of government policies in economies.	TBA	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.4.0-5.0/12:00-13:30
2021	2	Undergraduate	College of Social Sciences	SSC2004-01	3.0	Introduction to Public Administration	From the former Public Administration studies, we will take controversial themes, concentrate on their research, analyze and discuss which in forth will help in organizing all the previous studies. The future of public administration studies and the present state of Korean public administration studies are the major subjects of this course.	Online	Seoul	Tue.2.5-3.5/10:30-12:00, Thu.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Natural Sciences	STA2005-01	3.0	Exploratory Data Analysis	The techniques of exploratory data analysis help us to cope with a set of data in a fairly informal way, guiding us toward structure relatively quickly and easily. The primary purpose of the course is to introduce the general steps and operations that make up practical exploratory data analysis.	In-person + Online	Seoul	Mon.1.0-2.0/09:00-10:30, Wed.2.5-3.5/10:30-12:00
2021	2	Undergraduate	College of Natural Sciences	STA4020-01	3.0	Statistical Quality Control	Statistical methodologies for quality control are introduced. Sampling methods, test for quality, etc. are discussed.	Online	Seoul	Mon.4.0-5.0/12:00-13:30, Wed.3.0-4.0/11:00-12:30
2021	2	Undergraduate	College of Natural Sciences	STA4039-01	3.0	Survival analysis	This course introduces statistical methods that analyze a time-to-event variable of interest. Especially, the focus will be on fitting non-parametric, semi-parametric and parametric models that take the censoring property of the variable into account. Several real data sets will be analyzed using statistical software R.	In-person + Online	Seoul	Mon.6.5-7.5/14:30-16:00, Wed.1.0-2.0/09:00-10:30
2021	2	Graduate	Graduate School	BIO6005-01	3.0	Advanced Animal Physiology	The scope of Advanced Animal Physiology deals with the overall interrelationships between the structural anatomy and physiological functions in muscle systems, nerve systems, digestion systems, respiratory systems, reproductive systems, and circulatory systems.	TBA	Ilsan	Tue.7.0-9.5/15:00-18:00

2021	2	Graduate	Graduate School	BIO6041-01	3.0	Virtual screening	Virtual screening is a computational technique used in drug discovery to search libraries of small molecules in order to identify those structures which are most likely to bind to a drug target. Various types of techniques will be covered in this course.	TBA	Ilsan	Wed.5.5-8.0/13:30-16:30
2021	2	Graduate (Doctorate)	Graduate School	BIO8001-01	3.0	Protein Chemistry	Protein Chemistry offers the extensive full coverage of the up to date informations on the chemical structures and properties of proteins. It also includes the organic and biotechnological synthesis of peptides and protein molecules.	TBA	Ilsan	Mon.7.0-9.5/15:00-18:00
2021	2	Graduate	Graduate School	BME7038-01	3.0	Advanced Stem cell therapy	The purpose of this course is to study the advanced issues of stem cell based therapy in the regenerative medicine	TBA	Ilsan	Thu.2.5-5.0/10:30-13:30
2021	2	Graduate	Graduate School	BME7053-01	3.0	Special Topics in Immunology	We will discuss about interaction of cell, material related with a immune system by using recent published papers.	TBA	Ilsan	Thu.7.0-9.5/15:00-18:00
2021	2	Graduate	Graduate School	BME7070-01	3.0	Nanotechnology for Bioengineering	We will discuss about outstanding properties of nanomaterials and their application in biomedical engineering.	TBA	Ilsan	토.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	BME7096-01	3.0	Engineering of Semiconductor & Sensor	Learn the theory and application of semiconductor-based sensors, which are responsible for the big axis of nano bio-sensors. Learn various kinds of semiconductors and basic principles to be applied in various bio-sensors.	TBA	Ilsan	Wed.7.5-11.0/15:30-19:30
2021	2	Graduate	Graduate School	ENE7001-01	3.0	Fuzzy Theory and Application	This deals with the structure and design of fuzzy system. Fuzzy system is composed of z fuzzifier, fuzzy inference, defuzzifier, based on fuzzy set and fuzzy logic. Also this is to present the various design example.	TBA	Seoul	Tue.5.0-7.5/13:00-16:00
2021	2	Graduate	Graduate School	ENE7019-01	3.0	Mobile Communication system	The characteristics of mobile communication channel and mobile communication technology are lectured such as modulation/demodulation and coding theory.	TBA	Seoul	Tue.6.0-8.5/14:00-17:00
2021	2	Graduate	Graduate School	ENE7050-01	3.0	Adaptive Control Theory	This deals with the estimation of unknown plant, adaptive observable mechanism, adaptive control in discrete state, robust adaptive control, and design the adaptive control system.	TBA	Seoul	Wed.6.0-8.5/14:00-17:00
2021	2	Graduate	Graduate School	ENE7053-01	3.0	Adaptive Signal Processing	Structure and design methods of optimal filters for signals adaptive to data and system changes. Introduction to adaptive signal processing using neural structure and real applications to communication and signal processing systems.	TBA	Seoul	Thu.6.0-8.5/14:00-17:00
2021	2	Graduate	Graduate School	ENE7073-01	3.0	Power System Simulation	This course covers mathematical modeling, elementary numerical integration, linear system analysis, MATLAB/Simulink, and advanced numerical integration.	TBA	Seoul	Fri.8.0-10.5/16:00-19:00
2021	2	Graduate	Graduate School	ENE7140-01	3.0	Generic Algorithm	Course provides an introduction to concepts in genetic algorithms. Topics include parallel distributed processing, learning algorithms, and applications. This course will emphasize application of genetic algorithm widely used for addressing real-world problems such as optimization and search. Students will be introduced to real genetic algorithm for hands on experience with design, calibration, and implementation of genetic algorithm.	TBA	Seoul	Thu.5.0-7.5/13:00-16:00
2021	2	Graduate	Graduate School	GME6047-01	3.0	Multimedia Image Processing	This course covers compression, restoration, and quality improvement techniques of multimedia contents. In addition, fundamental techniques for image analysis and understanding such as edge detection, boundary detection, and region segmentation are studied and advanced image processing techniques for 3D multimedia contents are also covered.	TBA	Seoul	Thu.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	GME7038-01	3.0	Deep Learning Design II	In this course, learn techniques for designing deep learning models that have recently become an issue. Examine models utilized in various deep learning algorithms such as CNN, RNN, GAN, and Autoencoder, and learn recent model design techniques. In particular, by selecting a model of a specific algorithm for each semester and analyzing it intensively, the design ability can be improved.	TBA	Seoul	Wed.5.5-8.0/13:30-16:30
2021	2	Graduate	Global MBA	MBA6115-01	3.0	Operation Management	Operations management covers how firms can better organize their daily operations so that they can deliver goods and services in an efficient manner. The first part of the course addresses how to analyze, manage, and improve processes. Especially, various cases, including Wal-Mart and Dell Online, are discussed. The second part of this course focuses on supply chain management, which is a good way for a firm to gain global competitiveness. Issues related with bullwhip effect, demand forecasting, and inventory management are discussed with relevance cases.	TBA	Seoul	Wed.7.5-10.0/15:30-18:30
2021	2	Graduate	Global MBA	MBA6928-01	3.0	Principles of Marketing	This course aims to treat various issues related to marketing functions in company. Specifically, macro marketing, marketing strategy, marketing organization and sales activities are addressed.	TBA	Seoul	Wed.1.0-3.5/09:00-12:00
2021	2	Graduate	Global MBA	MBA6930-01	3.0	Strategic Human Resource Management	This class aims to learn the basic concepts and contemporary issues of human resource management and enhance the competencies which are needed to lead organizations. This class intends to acquire conceptual and analytical capability through study on the theories of HRM and actual cases handling the crucial issues in HRM. Students are expected to develop the ability of decision making to sort out various and complicated HRM issues from strategic view point of management.	TBA	Seoul	Mon.4.5-7.0/12:30-15:30
2021	2	Graduate	Global MBA	MBA6931-01	3.0	Practical Leadership and Management	Students who take Practical Leadership and Management will develop the key interpersonal management, leadership, and communication skills and understanding in order to confidently and successfully function in a business environment. They will practice using time and self-management, active listening, facilitation, and motivational criticism techniques in role plays and through observation.	TBA	Seoul	Mon.1.0-3.5/09:00-12:00
2021	2	Graduate	Global MBA	MBA7011-01	3.0	Marketing Communication	This course is designed to help students learn how to design an integrated marketing communication plan to build brand values. Students will learn to develop an effective advertising campaign as part of an integrated marketing communications program and also learn to design and evaluate different communication plans in achieving the desired objectives of the firm.	TBA	Seoul	Mon.7.5-10.0/15:30-18:30
2021	2	Graduate	Global MBA	MBA7016-01	3.0	Business Analysis and Valuation	The goal of this course is two-fold. First, it is intended to provide the student with basic knowledge regarding the structure of financial statements for the firm valuation purpose, encompassing Comprehensive Income Statement and Statement of Financial Position. Second, the course also provides an introduction to the use of Financial Statement information in valuing intrinsic firm value and related business decision making. These objectives are complementary in that the intelligent use of accounting information in various business decisions. In addition, the course covers differences between dividend based valuation model and free cash flow based valuation model.	TBA	Seoul	Wed.4.5-7.0/12:30-15:30
2021	2	Graduate	Global MBA	MBA7025-01	3.0	Financial Management	This course is designed to provide a basic understanding of financial management and introduce an analysis of financial decision makings. The course is targeted to the students of business school.	TBA	Seoul	Fri.4.5-7.0/12:30-15:30
2021	2	Graduate	Graduate School	MEC7045-01	3.0	Computer Aided Optimal Design	In the design of machine or mechanical system, it is important to optimize design parameters which control the performance of products. This course studies optimization procedure. Various types of optimal problems are studied first and then learn mathematical optimization methods to solve the problems. The knowledge of optimal design will be improved by solving real optimal design problem as a term project.	TBA	Seoul	Wed.2.0-4.5/10:00-13:00
2021	2	Graduate	Graduate School	MEC7059-01	3.0	Analytical Methods in Thermo-Fluids Engineering	This course covers the analytical methods employed in solving thermo-fluids engineering differential equations. Several methods of obtaining analytical solutions will be covered with correct interpretations of their results.	TBA	Seoul	Tue.6.0-7.5/14:00-16:00, Thu.3.5-4.0/11:30-12:30
2021	2	Graduate	Graduate School	MEC7086-01	3.0	Fundamentals of PHM	This course aims to introduce the fundamentals of prognostics and health management in context of mechanical engineering systems and components such as bearings, gear boxes, rotor system, etc. In particular, students will learn industry 4.0, the importance of PHM, the existing strategies of PHM (physics-based, data-driven, hybrid), preprocessing of data for PHM, descriptive statistics for PHM, and the use of artificial intelligence (machine learning, deep learning) for PHM.	TBA	Seoul	Mon.5.0-6.0/13:00-14:30, Wed.5.0-6.0/13:00-14:30
2021	2	Graduate	Graduate School	PHY7029-01	3.0	Special Research of Physics(2)	- Some topics in solid state physics - Study on nuclear physics or particle physics	TBA	Seoul	Thu.10.0-12.5/18:00-21:00
2021	2	Graduate	Graduate School	PMY7101-01	3.0	Presentation and Discussion Skill	This course aims students to acquire the skill of presentation and discussion in English.	TBA	Ilsan	Mon.7.0-9.5/15:00-18:00
2021	2	Graduate	Graduate School	PMY7212-01	3.0	Advanced Medicinal & Process Chemistry 2	To improve the widespread knowledge and ability on the synthesis and Structure-Activity Relationship for development of new drugs and the registered ones in KP, lectures and discussions about the advanced unit reactions will be provided to get the qualifications as a pharmacist.	TBA	Ilsan	Fri.5.0-7.5/13:00-16:00
2021	2	Graduate	Graduate School	PMY7402-01	3.0	Advanced Pharmacology 2	This course is open for students in the Master's or Ph.D. course. Students will learn pharmacological theories and research techniques in the fields of pharmacokinetics and pharmacodynamics through presentations and discussions of reviews and original articles published in the leading scientific journals.	TBA	Ilsan	Wed.6.0-8.5/14:00-17:00
2021	2	Graduate	Graduate School	PMY7406-01	3.0	Advanced Drug Therapy 2	Recent advances and applications in drug therapy will be discussed. Emphasis will be placed on the drug therapy to maximize drug efficacy with minimum unwanted side effects to treat particular diseases.	TBA	Ilsan	Mon.7.0-9.5/15:00-18:00
2021	2	Graduate	Graduate School	PMY7413-01	3.0	Thesis Research in Neuropharmacology 1	This course is provided for students in the Master or Ph.D. course. Students will be guided to fulfill thesis research for Master degree in neuropharmacology and learn how to write dissertation and research papers.	TBA	Ilsan	Tue.7.0-9.5/15:00-18:00
2021	2	Graduate	Graduate School	PMY7418-01	3.0	Thesis Research in Pharmacogenomics 2	This course is provided for students in the Master or Ph.D. course. Students will be guided to fulfill thesis research for Master or Ph.D. degree in pharmacogenomics and learn how to write dissertation and research papers.	TBA	Ilsan	Mon.1.0-3.5/09:00-12:00

2021	2	Graduate	Graduate School	PMY7422-01	3.0	Methods in Pharmacokinetics II	Study how to design and accomplish the in vitro and in vivo experimental tools for the pharmacokinetic investigation in preclinical and clinical levels. Also learn the statistic concepts and program related to the pharmacokinetic fields.	TBA	Ilsan	Mon.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	PMY7430-01	3.0	Advanced Pharmacokinetics 2	This course is provided for students in the Master's or Ph.D. courses. On completing this course, students will: 1) be able to calculate the basic pharmacokinetic parameters from clinical data. 2) be able to use basic pharmacokinetic parameters to calculate practical dosage regimens 3) be able to calculate and/or describe the effects of various abnormal clinical conditions and/or drug interactions on the parameters	TBA	Ilsan	Mon.5.0-7.5/13:00-16:00
2021	2	Graduate	Graduate School	PMY7508-01	3.0	Advanced Signal Transduction	In this course, we will introduce several pathways and player proteins of intracellular signal transduction regulating diverse biological events.	TBA	Ilsan	Wed.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	PMY7521-01	3.0	Advanced Pharmaceutical Biochemistry 2	This course is intended to render students understand biochemical processes, constituting biochemical processes of life and, based on this proposition, current accomplishment of life science and prospective direction of future scientific progression will be introduced.	TBA	Ilsan	Fri.5.0-7.5/13:00-16:00
2021	2	Graduate	Graduate School	PMY7524-01	3.0	Thesis Research in Pharmaceutical Biochemistry 2	This course is provided for students in the Master or Ph.D. course. Students will be guided to fulfill thesis research for Master or Ph.D. degree in biochemistry and learn how to write dissertation and research papers.	TBA	Ilsan	Fri.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	PMY7704-01	3.0	Contemporary Formulation Design	This lecture is focused on the advanced knowledge and technology for the development of target selective drug delivery systems to optimize the therapeutic outcomes. It will also introduce some case studies for the contemporary drug delivery systems commercially available.	TBA	Ilsan	Tue.5.0-7.5/13:00-16:00
2021	2	Graduate	Graduate School	PMY7705-01	3.0	Advanced Industrial Pharmacy	This course will deal with the principles and practices of the unit operation and characteristics of equipments used in pharmaceutical unit processes.	TBA	Ilsan	Wed.7.0-9.5/15:00-18:00
2021	2	Graduate	Graduate School	PMY7713-01	3.0	Thesis Research in Physical Pharmacy 2	This course is provided for students in the Master or Ph.D. degree in medical immunology and learn how to write dissertation and research papers.	TBA	Ilsan	Wed.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	PMY7714-01	3.0	Structure-based drug discovery	This course aims students to understand the structure and function of proteins and enzymes and to learn the recent approaches of structure-based drug discovery.	TBA	Ilsan	Mon.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	PMY7818-01	3.0	Seminar in Social & Administrative Pharmacy 2	Contemporary issues and research problems in sociobehavioral pharmacy, pharmacoconomics and policy, and clinical research.	TBA	Ilsan	TBA
2021	2	Graduate	Graduate School	PMY7821-01	3.0	The Policy on the Health Insurance and Reimbursement	This course covers health insurance products and managed care approaches to the financing and delivery of healthcare services.	TBA	Ilsan	Tue.11.0-13.5/19:00-22:00
2021	2	Graduate	Graduate School	PMY7829-01	3.0	Current Methodology in Pharmaceutical Research	Novel methodology is being introduced in the advanced pharmaceutical sciences. The course introduces current tools in the pharmaceutical research and improve the understanding of the state-of-the-art technologies.	TBA	Ilsan	Tue.7.0-9.5/15:00-18:00
2021	2	Graduate	Graduate School	PMY7833-01	3.0	Seminars in Future Pharmacy 2	The main content of study is the understanding and discussion of research papers to grasp the latest research trends in the field of digital healthcare and digital medicine-related pharmacy for graduate students, and through this, it helps for graduate students to discover their own research projects	TBA	Ilsan	Thu.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	TEE7045-01	3.0	Seminar of Technology Entrepreneurship Research 2	This course focuses on selecting topics of real interest from the perspective of researchers and writing and presenting research papers with the theme of the overall ecosystem of start-ups centered on technology entrepreneurship.	TBA	Seoul	Tue.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	EME7005-01	3.0	Introduction to Nanoelectronics	On successful completion of this course students will be able to understand the relationship between the device structure and its functionality and write a research manuscript independently.	TBA	Seoul	Fri.1.0-3.5/09:00-12:00
2021	2	Graduate	Graduate School	FOO7016-01	3.0	Starter Culture Technology	Course Description Unavailable	TBA	Ilsan	Thu 9.0-11.5
2021	2	Graduate	Graduate School	MEC6003-01	3.0	Special Topics in Heat Transfer	Course Description Unavailable	TBA	Seoul	Mon. 2.5-3.5 Tue 2.5-3.5
2021	2	Graduate	Graduate School	EME7031-01	3.0	Electronic Materials and Processing	Course Description Unavailable	TBA	Seoul	Wed. 2.5-5.0
2021	2	Graduate	Graduate School	MEC7082-01	3.0	Computational Nanostructure Design	Course Description Unavailable	TBA	Seoul	Thu. 5.5-8.0
2021	2	Graduate	Graduate School	FOO7035-01	3.0	Advanced nutritional epidemiology	Course Description Unavailable	TBA	Ilsan	Thu. 3.0-5.5
2021	2	Graduate	Graduate School	BES6005-01	3.0	Global Combating Desertification	Course Description Unavailable	TBA	Ilsan	Thu. 5.0-7.5

COVID-19 School and General Policies (Fall 21 - TBD for Spring 22)

On-Campus

- All lecture-based courses are supposedly given online unless the classes are taught in-person and online at the same time.
- Wearing masks is mandatory on campus and to be outside in general.
- On-campus facilities such as the library, cafeterias, banks and administrative offices are open but may run for limited hours.

General Restrictions (The restrictions differ by region and the level of social distancing.)

- You should be tested negative COVID-19 within 3 days before the departure date. (Valid test types: PCR, RAT or ELISA is invalid.)
- Quarantine for 14 days upon arrival is mandatory for all exchange students regardless of their vaccination status and country of citizenship.
- Dine-in at cafes or restaurants is allowed by 10pm in Seoul and surrounding cities. (Bars, pubs and clubs are closed.)
- (Seoul and surrounding cities) For those who are unvaccinated or vaccinated abroad, up to 4 people can gather by 6pm and up to 2 people can gather in public areas or privately until 10pm.

* The information is based on the current policies (of October 13, 2021). School policies and general regulations on COVID-19 are subject to change.

Online/In-person	Course Types	Exceptions
Online	All theory (lecture-based) courses	Lectures for the courses with the symbol indicating that the classes will be either in-person or hybrid(both in-person and online) past October 18 are highly encouraged to be given in-person and
In-person	Lab, experiment or practicum based courses	Courses with 30 or more students are highly encouraged to be online.

Self-quarantine Guidelines



2020.04.07.



영어



Self-quarantine guidelines



Do not leave the quarantine area to prevent the spread of disease.

※ We ask those subject to self-isolation to comply with quarantine measures to prevent the spread of infection in accordance with the "Infectious Disease Control and Prevention Act."

* Under Article 79-3 (Penalty Provisions), a violator could be subject to imprisonment for not exceeding one year or a fine of up to KRW 10 million.



Stay alone in an isolated area.

- Keep the door closed and open the window frequently to ventilate. • Eat by yourself.
- If possible, use a separate bathroom and sink.
(Shared bathroom and sink should be disinfected with a home disinfectant such as chlorine bleach after use.)



If you need to leave the area for an inevitable reason such as treatment, you must contact the local health center(Officer in charge)first.



Avoid contact with family members or cohabiters. (speaking, etc.)

- If inevitable, do not face each other, wear masks, and keep at least 2m distance.

Use personal items separately. (personal towel, tableware, mobile phone, etc.)

- Wash clothes and bedding of suspected infectee separately from others'
- Separate tableware, so others don't use it before it is cleaned.

Comply with the health guidelines.

- Comply with personal hygiene recommendations (washing hands, sanitizing, etc.)
- Wear a mask when coughing
- If you don't have a mask, cover your mouth and nose with your sleeve, and wash or sanitize hands after coughing or sneezing.

During the active monitoring period, your local public health center will contact you for symptoms, etc. Please maintain self-monitoring for 14 days from the date of contact with a diagnosed infectee.

Self-monitoring method

- ✓ Monitor your health conditions for any symptoms of infection such as respiratory symptoms
 - ✓ Take the temperature every morning and evening
- ✓ Inform the public health center of your symptoms when they contact you once or more a day

Major Symptoms of COVID-19

- ✓ Fever (over 37.5 °C)
- ✓ malaise
- ✓ Sore throat
- ✓ Respiratory symptoms (cough, difficulty in breathing, etc.)
- ✓ Pneumonia

