

2020 Digital Winter Session Overview and Course Registration Procedure

SNU Office of International Affairs

□ What is “Digital Winter Session”?

Through this newly piloted program, SNU’s current students can take undergraduate and graduate courses of academically rigorous international faculty **remotely**. Students will pay the same tuition as general winter session students (40,500 KRW/credit) and earn regular credits (up to 6 credits) toward their major requirements for their degree.

□ Program Overview

○ **Session Dates:** Classes will be scheduled within December 21, 2020 – February 10, 2021

Course Title	Class Dates*	Timetable	Instructor
뇌과학과 사회 Neuroscience and Sociality	2020. 12. 21.(월) ~ 2021. 1. 22.(금) [5주] (Course Withdrawal by 2021. 1. 7.(목))	Mon, Wed, Fri (12:00~14:50)	Daeyeol Lee (Johns Hopkins University)
컴퓨터보안 Introduction to Computer Security	2020. 12. 21.(월) ~ 2021. 2. 10.(수) [8주] (Course Withdrawal by 2021. 1. 15.(금))	Mon, Thu (09:00~11:50)	Taeso Kim (Georgia Tech)
산업생태학** Industrial Ecology	2020. 12. 21.(월) ~ 2021. 2. 3.(수) [7주] (Course Withdrawal by 2021. 1. 13.(수))	Mon, Wed, Fri (9:00~11:50)	Sangwon Suh (UC Santa Barbara)
주제탐구세미나 3 Selected Topics Seminar 3	2021. 1. 4.(월) ~ 2021. 2. 10.(수) [6주] (Course Withdrawal by 2021. 1. 22.(금))	Mon, Wed, Fri (12:00~14:50)	Vincent Sueh Leung (Lingnan University)
건축구조공학특론 2 Design of Building Structures 2	2020. 12. 21.(월) ~ 2021. 2. 10.(수) [8주] (Course Withdrawal by 2021. 1. 15.(금))	Mon, Wed, Fri (09:00~10:50)	Yukio Tamura (Tokyo Polytechnic University)
산업공학특론 Topics in Industrial Engineering	2020. 12. 21.(월) ~ 2021. 1. 22.(금) [5주] (Course Withdrawal by 2021. 1. 7.(목))	Mon, Wed, Fri (12:00~14:50)	Tim Huh (University of British Columbia)
작물양적유전학 Breeding for Quantitative Traits in Plants	2020. 12. 21.(월) ~ 2021. 2. 10.(수) [8주] (Course Withdrawal by 2021. 1. 15.(금))	Mon, Tue, Wed, Thu (9:30~10:45)	Rex Bernardo (University of Minnesota)

* Depending on the class dates, course withdrawal deadlines vary.

** The credit structure consists of 3-2-2.

○ Eligibility: SNU’s current undergraduate and graduate students

- However, students who are expected to graduate in February 2021 are ineligible.
- Repetition of courses that students are currently taking in Fall 2020 are not allowed.

- No GPA or language proficiency requirement applies, but interested students must check the syllabus to see if they are qualified enough to follow the course.

○ Credit Allowance: **Up to 6 Credits (2 Courses)**

- ※ The number of credits that can be completed in winter session 2020 **cannot exceed 6 credits in total**. (General Winter Session + Digital Winter Session + Study Abroad Credit Recognition ≤ 6 credits)
- ※ Students are not allowed to take courses that overlap in class time.
 - ☞ The lists of course registration for General Winter Session and Digital Winter Session will be cross-checked; **the entire course registration will be cancelled when:**
 - 1) the number of credits exceeds 6 credits in total;
 - 2) class time overlaps with each other;
 - 3) or, course registration for repetition of Fall 2020 courses is found.

○ Important Dates

- **Course Registration**

10:00 ~ 16:00, Friday, December 4 ~ Wednesday, December 9

mySNU portal – Int'l Exchange – International Summer/Winter Institute – Course Registration

- ※ Please note that course registration for Digital Winter Session is not available through the course registration website (<http://sugang.snu.ac.kr>).

- **Tuition Payment**

10:00, Friday, December 4 ~ 17:00 Thursday, December 10

Bank Transfer to SNU OIA

- ※ Course registration will be automatically cancelled when the payment is not completed by the deadline.

- **Notification of Cancelled Courses:** Friday, December 11

- ※ Courses will be cancelled when the number of students who completed tuition payment does **not exceed 20 persons**; in this case, students may choose between full refund of the tuition or course registration change to a different course that has remaining seats.

- **Additional Course Registration and Tuition Payment (for the remaining seats)**

(Course Registration)

10:00 ~ 16:00, Monday, December 14 ~ Tuesday, December 15

mySNU portal – Int'l Exchange – International Summer/Winter Institute – Course Registration

(Tuition Payment)

10:00, Monday, December 14 ~ 17:00, Tuesday, December 15

Bank Transfer to SNU OIA

※ Course "override" beyond the quota is not available.

※ There is no separate course change period.

- **Course Cancellation/Withdrawal and Refund Policy**

- Course Cancellation: Monday, December 14 ~ a day before the class starts / Full refund
- Course Withdrawal: Class start date ~ 1/2 point of class dates / 50% refund
- **Afterwards, course cancellation/withdrawal and tuition refund is not available.**

○ Non-face-to-face Class Operations

- Classes will proceed based on eTL classrooms.
- Specific information (class operations, evaluation, etc.) can be found from the syllabus.

○ Credit Acquisition

- Grades will be updated through mySNU within 7 days from the class ending date.
- Course evaluation will be conducted after the class ends (TBA).
- Digital Winter Session's courses will count towards the cumulative GPA as 2020's winter session courses.
 - ※ It may take a few weeks to process grades and course classification changes, and thus, those who are expected to graduate in February 2021 are ineligible for Digital Winter Session courses.
- Depending on the student's major, courses may be acknowledged as *Elective Subject for Major* or *Elective General Subject*.
 - ※ Students may be required to file a request to manually change the course classification after the session ends, and detailed information will be provided later.
- Concerning whether the Digital Winter Session courses count towards the English lecture requirement for graduation, students must contact the affiliated department office.

General Inquiries

Attn. **Ms. Jaeyeon Shin**, Office of International Affairs

02-880-8692, colormysoul@snu.ac.kr, <http://oia.snu.ac.kr>

Appendix 1. Schedule and Procedures

2. List of 2020 Digital Winter Session Courses
3. List of Course Syllabi (attached)

※ Appendix 1: Schedule and Procedures

□ Course Registration

- Course Registration Period: **10:00 ~ 16:00, Friday, December 4 ~ Wednesday, December 9**
- Website: **mySNU portal – Int'l Exchange – International Summer/Winter Institute – Course Registration**
 - ※ Please note that course registration for Digital Winter Session is not available through the course registration website (<http://sugang.snu.ac.kr>).

Course Registration ⓘ Help

Application Form

2

Submit

English Name		Korean name	
Date of birth		Gender *	
Cell phone No.		Email address	

- The number of credits you can take is 9 credits for General + International Summer Session and 6 credits for General + International Winter Session.
 - The timetable of the courses you choose must not overlap with each other and also with that of the course you choose from General Summer/Winter Session.

<input type="checkbox"/> Subject	Time	Credits	Quota (Current Count)
<input type="checkbox"/> South Asian Languages		3	2(3)
<input type="checkbox"/> Design of Building Structures 2	Mon. Tue. Wed. 09:00-11:50	3	2(4)
<input checked="" type="checkbox"/> Topics in Industrial Engineering	Mon. Tue. Sat. 09:00-11:50	3	40(-1)
<input type="checkbox"/> Introduction to Computer Security		3	50(5)
<input type="checkbox"/> Basic Digital Signal Processing		3	40(1)
<input type="checkbox"/> Industrial Ecology		3	60(5)
<input type="checkbox"/> Genetics and Lab.		3	40(1)

[전수:7건] 조회되었습니다

- How to register courses?

(1) Tick the box of the course you wish to register and (2) click on "Submit" button. When the course registration is complete, the box will appear blue-colored.

※ The number of credits that can be completed in winter session 2020 **cannot exceed 6 credits in total**. (General Winter Session + Digital Winter Session + Study Abroad Credit Recognition ≤ 6 credits)

※ Registration of multiple courses that overlap in time are not allowed; students must be responsible to check whether the Digital Winter Session course that they wish to take overlaps with any of the pre-registered General Winter Session courses.

※ Repetition of courses that students are currently taking in Fall 2020 are not allowed.

☞ The lists of course registration for General Winter Session and Digital Winter Session will be cross-checked; **the entire course registration will be cancelled when:**

1) the number of credits exceeds 6 credits in total;

2) class time overlaps with each other;

3) or, course registration for repetition of Fall 2020 courses is found.

☞ Those who wish to cancel pre-registered General Winter Session courses and then register for Digital Winter Session courses can apply for the remaining seats during

the additional course registration period (December 14 – 15) after cancelling General Winter Session courses.

- How to change course registration?

Students can freely change the course registration by ticking the checkbox and saving it by the "Submit" button. **Please note that course change is not available afterwards.**

※ Students must be responsible to pay the right tuition by the deadline (17:00, Thursday, December 10) in accordance with their final course registration results.

- How to cancel course registration?

Students who wish to cancel the entire course choice must directly contact SNU OIA (02-880-8692, colormysoul@snu.ac.kr)

- Course registration is not available beyond its quota; that is, course override is not allowed. Therefore, interested students must ensure to complete the registration by the deadline.

Tuition Payment

○ Tuition Payment Period: **10:00, Friday, December 4 ~ 17:00, Thursday, December 10**

○ How to pay the tuition?

- Bank Account Transfer: **Shinhan 100-031-323877(Account Holder: 서울대학교국제협력본부)**

- Tuition Chart: **121,500 KRW for 1 course, 243,000 KRW for 2 courses** (40,500 KRW/credit)

※ Tuition bill or registration confirmation through mySNU portal is not available.

○ Course registration of those who do not complete tuition payment by the deadline will be automatically cancelled.

Registration Confirmation

○ Students who successfully complete course registration and tuition payment will receive a **confirmation e-mail the next day (except for weekend)**. After December 16, students will be able to enter the eTL classroom of each Digital Winter Session course.

※ Digital Winter Session courses are not displayed in mySNU portal's Class/Grade menus nor in the course registration website (<http://sugang.snu.ac.kr>).

○ Courses will be cancelled when the number of students who completed tuition payment does **not exceed 20 persons**.

- Notification of Cancelled Courses: Friday, December 11, through SNU OIA Notice Board and e-mail to individual students

- Students of the cancelled courses may choose between full refund of the tuition or course registration change to a different course that has remaining seats.

Additional Course Registration and Tuition Payment (for the remaining seats)

- Additional Course Registration Period: **10:00 ~ 16:00, Monday, December 14 ~ Tuesday, December 15**
- Website: **mySNU portal – Int'l Exchange – International Summer/Winter Institute – Course Registration**
 - Course registration is available for the remaining seats only; **course override beyond the quota is unavailable.**
 - **Those who completed course registration between December 4 – 10 are not allowed to change their course registration during this additional period;** those who wish to take an additional course must contact SNU OIA directly.
- Additional Tuition Payment Period: **10:00, Monday, December 14 ~ 17:00, Tuesday, December 15**
- How to pay the tuition?
 - Bank Account Transfer: **Shinhan 100-031-323877(Account Holder: 서울대학교국제협력본부)**
 - Tuition Chart: **121,500 KRW for 1 course, 243,000 KRW for 2 courses** (40,500 KRW/credit)
 - ※ Tuition bill or registration confirmation through mySNU portal is not available.
- Course registration of those who do not complete tuition payment by the deadline will be automatically cancelled.
- Students who successfully complete course registration and tuition payment will receive a **confirmation e-mail the next day (except for weekend)**. After December 16, students will be able to enter the eTL classroom of each Digital Winter Session course.
 - ※ **Digital Winter Session courses are not displayed in mySNU portal's Class/Grade menus nor in the course registration website (<http://sugang.snu.ac.kr>).**

Course Cancellation/Withdrawal and Refund Policy

- Course Cancellation
 - Monday, December 14 ~ a day before the class starts**
 - Direct application to SNU OIA**
 - Application Procedure: Send the course title and the reason of cancellation to SNU OIA through e-mail (colormysoul@snu.ac.kr) ※ Instructor's approval is not required.
 - Full refund of the tuition paid will be processed to the bank account that is registered on mySNU portal by the end of December.

○ Course Withdrawal

Class start date ~ 1/2 point of class dates

Submission of Course Cancellation Form with the instructor's approval

- ※ Detailed procedures and the template form will be announced through SNU OIA's website after Digital Winter Session starts.
- 50% refund of the tuition paid will be processed to the bank account that is registered on mySNU portal by the end of January, 2021.
- ※ Course Withdrawal Deadline

Class Dates	1/2 point
December 21, 2020 ~ January 22, 2021 [5 weeks]	January 7, 2021
December 21, 2020 ~ February 3, 2021 [7 weeks]	January 13, 2021
December 21, 2020 ~ February 10, 2021 [8 weeks]	January 15, 2021
January 4, 2020 ~ February 10, 2021 [6 weeks]	January 22, 2021

○ Afterwards, course cancellation/withdrawal and tuition refund is not available.

※ Appendix 2: List of 2020 Digital Winter Session Courses

학부 과정(Undergraduate)

1. 뇌과학과 사회(Neuroscience and Sociality) (신설(New))

교과목 번호 (Course Code)	명칭 (Title)	국문	뇌과학과 사회			학점-강의시간-실습시간 (Credit-Lecture Hour-Lab Hour)	
M2173.003400		영문	Neuroscience and Sociality			3-3-0	
학과(부)(전공) (Department)	자연과학대학 (College of Natural Sciences)		과정 및 학년 (Level)	학사(2학년) (Undergraduate, Sophomore)	강의담당교수 (Instructor)	Daeyeol Lee(이대열) (미국 존스홉킨스대학 블룸버그 석좌교수)	
교과구분 (Classification)	전선 (Elective for Major)		성적부여 (Grading)	S/U	수강정원 (Quota)	40명	
교과목 운영기간 (Course Dates)	2020.12.21.(월) ~ 2021.1.22.(금)		강의시간 (Timetable)	월수금(Mon, Wed, Fri) 4~6교시(12:00~14:50) (주당 9시간)			
원격수업 운영방식 (Non-face-to-face Class Operation)	실시간 온라인 강의 (Real-time Online Lectures)						
국문 개요	본 강의는 인간의 사회적 상호작용과 인간의 본질을 인지과학과 신경과학과 같은 자연과학의 틀로 이해해 보고자 한다. 인간의 행동이 뇌에 의해서 조정된다는 사실은 진화생물학과 신경과학적 접근이 사회적인 상호작용과 관련된 인지적인 과정에 대한 통찰을 제공할 수 있음을 의미한다. 따라서, 본 강의는 인간의 마음과 행동이 진화적 적합도를 최대화 하기 위한 생물학적 뇌의 진화적 역사에 기인한다는 가정 하에, 미적 경험을 포함하는 사회성과 관련된 뇌의 기능에 대해서 초점을 맞춘다. 본 강의에서는 신경생물학과 인지과학의 기초적 지식을 다진 후, 인간 행동을 이해하는데 중요한 현대적 이론과 현상(예: 강화학습, 게임이론, 이타적 행동, 감각-지각 시스템, 기계학습, 딥러닝)을 소개하고, 언어와 관련된 뇌의 흥미로운 작동원리를 음향과 음악의 관점에서 탐구하고 간단한 실습을 하고자 한다. 본 강의를 수강하기 위해 요구되는 특별한 배경 지식이나 기술은 없으며, 뇌와 인간의 행동 및 인지를 이해하고자 하는 학생들은 학부생과 대학원생 모두 수강 가능하다.						
영문 개요	This course seeks to understand the human nature and the nature of human social interactions through the framework of natural sciences, such as cognitive science and neuroscience. The fact that humans behaviors are controlled by the brain implies that the approaches in evolutionary biology and neuroscience can provide insights into cognitive mechanisms of social interaction. Therefore, this course will focus on the brain functions related to human sociality and aesthetic experience, relying on the assumption that human mind and behaviors are shaped by their evolutionary history and tendency to maximize the fitness of the species. After introducing basic concepts and terminology in neurobiology and cognitive science, the rest of the course will cover modern theories and observations that are relevant to understanding human behaviors (e.g., reinforcement learning, game theory, altruism, perceptual system, machine learning, and deep learning). It will also cover interesting brain functions related to language and communications using examples from music production and technology. This course does not require any specific background or skills, and are open to both undergraduate and graduate students interested in brain, cognition, and human behavior.						
강의계획서	붙임3 참조(Appendix 3)						

2. 컴퓨터보안(Introduction to Computer Security)

교과목 번호 (Course Code)	명칭 (Title)	국문	컴퓨터보안			학점-강의시간-실습시간 (Credit-Lecture Hour-Lab Hour)
4190.415		영문	Introduction to Computer Security			3-3-0
학과(부)(전공) (Department)	컴퓨터공학부 (Dept. of Computer Science and Engineering)		과정 및 학년 (Level)	학사(4학년) (Undergraduate Senior)	강의담당교수 (Instructor)	Taesoo Kim(김태수) (미국 조지아텍 부교수)
교과구분 (Classification)	전선 (Elective for Major)		성적부여 (Grading)	A~F	수강정원 (Quota)	50명
교과목 운영기간 (Course Dates)	2020.12.21.(월) ~ 2021.2.10.(수)		강의시간 (Timetable)	월목(Mon, Thu) 1~3교시(09:00~11:50) (주당 6시간)		
원격수업 운영방식 (Non-face-to-face Class Operation)	실시간 온라인 강의+녹화강의 병행 (Both real-time and recorded lectures)					
국문 개요	이 과목은 학부 상급생을 대상으로 컴퓨터 및 네트워크 보안의 기본적인 관심 사항 및 기법들을 소개하고, 보안과 관련된 여러 문제점과 해결 방안에 대한 입문 수준의 지식을 제공한다. 주요 학습 주제로는 보안의 정의, 확인과 인증, 접근 제어, 취약성 분석, 보안 모델, 보안 평가, 암호화 기법, 침입 탐지, 시스템 보안, 그리고 네트워크 보안 등을 포함한다. 이 과목을 수강하기 위해서는 운영체제, 컴퓨터 네트워크에 대한 기초 지식이 요구된다.					
영문 개요	This course aims to introduce general concerns and techniques of computer and network security for advanced undergraduate students. It also provides introductory knowledge for security—related problems and their solutions. Major topics include definition of computer security, identification and authentication, access control, vulnerability analysis, security models, security evaluation, cryptography, intrusion detection, system security, and network security. The students are required to have basic knowledge of operating system and computer network.					
강의계획서	붙임3 참조(Appendix 3)					

3. 산업생태학(Industrial Ecology)

교과목 번호 (Course Code)	명칭 (Title)	국문	산업생태학			학점-강의시간-실습시간 (Credit-Lecture Hour-Lab Hour)
538.405		영문	Industrial Ecology			3-2-2
학과(부)(전공) (Department)	연합전공 글로벌환경경영학 (Global Environmental Management)		과정 및 학년 (Level)	학사(4학년) (Undergraduate Senior)	강의담당교수 (Instructor)	Sangwon Suh(서상원) (미국 UC Santa Barbara 교수)
교과구분 (Classification)	전선 (Elective for Major)		성적부여 (Grading)	A~F	수강정원 (Quota)	60명
교과목 운영기간 (Course Dates)	2020.12.21.(월) ~ 2021.2.3.(수)		강의시간 (Timetable)	월수금(Mon, Wed, Fri) 1~3교시(9:00~11:50) (주당 9시간)		
원격수업 운영방식 (Non-face-to-face Class Operation)	실시간 온라인 강의 (Real-time Online Lectures)					
국문 개요	생산자 및 소비자의 경제활동의 환경영향을 평가하여 물질의 소비를 줄이고, 환경부담이 적은 지속가능한 생산과 소비활동이 가능한 경제구조를 만들어 갈 수 있는 환경친화적 대안을 평가할 수 있는 방법을 배우고 현실의 과제에 적용하여 방법의 실천적 의미를 파악한다. 지속가능한 소비이론, 청정생산, 전과정평가(Life Cycle Assessment), 물질흐름분석(material flow analysis), 생태발자국(ecological footprint)분석 등의 방법론을 배워 제품, 기업, 정부, 국가 등의 생태적 지속성지수 개발 및 평가 등을 다룬다. LCA, MFA, 생태발자국 등의 방법론을 실제로 생산 소비되는 제품 또는 토지이용체제 등에 적용하여 보는 실습과제를 수행한다.					
영문 개요	Concept and methodologies for clean production and sustainable consumption for sustainable economy are introduced in order to evaluate the environmental impact of production systems and consumption activities. Theories of sustainable consumption and clean production will be reviewed with results of empirical studies employing analytical tools such as life cycle assessment, material flow assessment and eco-foot prints. Students will be asked to apply one of such analytical tools to a production or consumption system as a practical project.					
강의계획서	붙임3 참조(Appendix 3)					

4. 주제탐구세미나 3(Selected Topics Seminar 3)

교과목 번호 (Course Code)	명칭 (Title)	국문	주제탐구세미나 3			학점-강의시간-실습시간 (Credit-Lecture Hour-Lab Hour)
991.201		영문	Selected Topics Seminar 3			3-3-0
학과(부)(전공) (Department)	자유전공학부 (College of Liberal Studies)		과정 및 학년 (Level)	학사(2학년) (Undergraduate, Sophomore)	강의담당교수 (Instructor)	Vincent Sueh Leung (홍콩 링난대 부교수)
교과구분 (Classification)	전선 (Elective for Major)		성적부여 (Grading)	A~F	수강정원 (Quota)	30명
교과목 운영기간 (Course Dates)	2020.1.4.(월) ~ 2021.2.10.(수)		강의시간 (Timetable)	월수금(Mon, Wed, Fri) 4~6교시(12:00~14:50) (주당 9시간)		
원격수업 운영방식 (Non-face-to-face Class Operation)	실시간 온라인 강의 (Real-time Online Lectures)					
국문 개요	이 세미나는 강의, 토론, 독해 및 과제작성을 영어 혹은 제2외국어로 진행하는 과정으로서 다양한 학문분야와 관련된 주제를 선정하여 그 주제의 중요한 텍스트들에 대해 읽고 토론한 결과를 과제로 작성함으로써 텍스트를 이해하는 능력과 이를 바탕으로 한 창의적 사고의 함양을 목표로 한다. 특별히 외국어 토론과 외국어 문서 작성을 통해 국제적 학문소통을 위한 기본 능력을 배양한다.					
영문 개요	This seminar includes readings, lectures, discussions in English or another foreign language on selected topics of different disciplines.					
강의계획서	붙임3 참조(Appendix 3)					

대학원 과정(Graduate)

1. 건축구조설계특론 2(부제: 내풍구조공학)(Design of Building Structures 2 (Subtitle: Structural Wind Engineering))

교과목 번호 (Course Code)	국문	건축구조설계특론 2 (부제: 내풍구조공학)	학점-강의시간-실습시간 (Credit-Lecture Hour-Lab Hour)		
401.629	영문	Design of Building Structures 2 (Subtitle: Structural Wind Engineering)	3-3-0		
학과(부)(전공) (Department)	건축학과 (Dept. of Architecture and Architectural Engineering)	과정 및 학년 (Level)	대학원 (Graduate)	강의담당교수 (Instructor)	Yukio Tamura (일본 Tokyo Polytechnic University 명예교수)
교과구분 (Classification)	전선 (Elective for Major)	성적부여 (Grading)	A~F	수강정원 (Quota)	40명
교과목 운영기간 (Course Dates)	2020.12.21.(월) ~ 2021.2.10.(수)		강의시간 (Timetable)	월수금(Mon, Wed, Fri) 1~2교시(09:00~10:50) (주당 6시간)	
원격수업 운영방식 (Non-face-to-face Class Operation)	실시간 온라인 강의 (Real-time Online Lectures)				
국문 개요	고층구조물의 설계에 주안점을 두어 약산식에 의한 설계 및 시스템 결정, 풍하중 및 지진하중의 영향, 가새설계 등에 주안점을 둔다. * 2군 부제 관련 안내: 2군 교과목 중 내풍구조공학 교과목은 기존에 본교에 개설된 적이 없으며, 기후변화로 인한 태풍피해가 급증하는 상황에서 시기적절한 교과목으로 판단됨				
영문 개요	This lecture is focused on design of high rise buildings. It treats design by approximate formula , determination of structural system, the effect of wind and seismic load and design of bracings. * Additional Information: There has been no course offered at SNU concerning the structural wind engineering. In light of the rapid increase in typhoon damage caused by climate change, this new course will be a timely subject for interested students.				
강의계획서	붙임3 참조(Appendix 3)				

2. 산업공학특론(부제: 수익관리와 가격전략)(Topics in Industrial Engineering (Subtitle: Revenue Management and Pricing))

교과목 번호 (Course Code)	명칭 (Title)	국문	산업공학특론 (부제: 수익관리와 가격전략)			학점-강의시간-실습시간 (Credit-Lecture Hour-Lab Hour)
406.559		영문	Topics in Industrial Engineering (Subtitle: Revenue Management and Pricing)			3-3-0
학과(부)(전공) (Department)	산업공학과 (Dept. of Industrial Engineering)		과정 및 학년 (Level)	대학원 (Graduate)	강의담당교수 (Instructor)	Tim Huh 캐나다 브리티시 컬럼비아 대학 (UBC) 교수
교과구분 (Classification)	전선 (Elective for Major)		성적부여 (Grading)	A~F	수강정원 (Quota)	60명
교과목 운영기간 (Course Dates)	2020.12.21.(월) ~ 2021.1.22.(금)		강의시간 (Timetable)	월수금(Mon, Wed, Fri) 4~6교시(12:00~14:50) (주당 9시간)		
원격수업 운영방식 (Non-face-to-face Class Operation)	실시간 온라인 강의 (Real-time Online Lectures)					
국문 개요	<p>산업공학의 새로운 기법들을 소개하고 이의 응용실태를 알아본다. * 2군 부제 관련 안내: 수익관리(Revenue Management) 영역은 운영관리 분야에서도 상대적으로 최근에 각광을 받는 학문분야로서, 수리적 모델을 바탕으로 한 의사결정 방법론을 연구하는 산업공학과 및 경영대학의 석.박사 과정 학생들에게 학문적으로 많은 도움이 될 것으로 판단됨</p>					
영문 개요	<p>State-of-the-art IE techniques and their applications are presented. * Additional Information: The revenue management has recently attracted a considerable amount of attention in the field of operation management, and thus, this new course will be of great academic help to Master's and Doctorate students studying industrial engineering and business administration, especially those who are interested in decision-making methodologies based on mathematical models.</p>					
강의계획서	붙임3 참조(Appendix 3)					

3. 작물양적유전학(Breeding for Quantitative Traits in Plants) (신설(New))

교과목 번호 (Course Code)	명칭 (Title)	국문	작물양적유전학			학점-강의시간-실습시간 (Credit-Lecture Hour-Lab Hour)
M3285.000100		영문	Breeding for Quantitative Traits in Plants			3-3-0
학과(부)(전공) (Department)	농림생물자원학부(원예생명공학전공) (Dept. of Agriculture, Forestry and Bioresources (Horticultural Science Major))		과정 및 학년 (Level)	대학원 (Graduate)	강의담당교수 (Instructor)	Rex Bernardo (미국 미네소타대학교 교수)
교과구분 (Classification)	전선 (Elective for Major)		성적부여 (Grading)	A~F	수강정원 (Quota)	20명
교과목 운영기간 (Course Dates)	2020.12.21.(월) ~ 2021.2.10.(수)		강의시간 (Timetable)	월화수목(Mon, Tue, Wed, Thu) 1교시(9:30~10:45) (주당 6시간)		
원격수업 운영방식 (Non-face-to-face Class Operation)	실시간 온라인 강의 (Real-time Online Lectures)					
국문 개요	식물의 형질은 단일유전자에 지배되는 멘델유전과 다수의 유전자에 의해 지배되는 양적유전 나누어지며, 많은 농업형질은 양적유전자의 지배를 받는다. 본 강좌에서는 식물의 양적유전에 대한 기초지식을 습득하고 최근 연구동향을 숙지하기 위하여 세계적인 학술지에 발표된 관련 전문학술 논문을 소개하고 이에 대한 심층적 토의를 한다. 양적유전자 분석을 위한 최신 분석기법을 학습하고 이들 발전의 뒷받침이 되는 학술적 및 기술적 진보를 추적한다. 주요 강의 내용은 양적유전의 기초(상가적 효과, 비상가적 효과, 환경효과), 변이의 원인, 유전력, 선발효과, 집단선발, 양적형질 분석의 근간이 되는 선형분석 기법 등을 강의한다.					
영문 개요	Plant traits are divided into Mendelian inheritance, which is controlled by a single gene, and quantitative inheritance, which is controlled by multiple genes, and many agricultural traits are controlled by quantitative genes. In this course, we will introduce related specialized academic papers published in global academic journals and discuss them in depth in order to acquire basic knowledge of quantitative inheritance of plants and to become familiar with recent research trends. Learn the latest analytical techniques for quantitative genetic analysis and track the academic and technological advances that underpin these developments. The main lecture contents are the basics of quantitative inheritance (shopping district effect, bisanga effect, environmental effect), the cause of mutation is Yoo Jung Ryuk, selection effect, group selection, linear analysis that is the basis of quantitative trait analysis. Lecture on techniques.					
강의계획서	붙임3 참조(Appendix 3)					