

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Level 1 Korean 1	Course Number	0000540001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 송원용	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[15-120:화(5B-6),목(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Korean Class for the beginners who have never studied or studied less than 100 hours.
We will provide placement session for every beginner students in the first week of the semester.

[2] Course Learning Outcomes

Learn how to communicate in daily situation in Korean.

[3] Class Delivery Method

All time face to face class with textbook and PPT. There will be lots of the interactions between your classmates during my classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	10 %	0 %	30 %	20 %	10 %	10 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	20 %	10 %	50 %	20 %

[4] Grading Policies

Quiz scores after every units: 50%
Oral test as a final test: 10%
Attendance: 20%(minus 2 points for one absence without any notice)
Assignment: 5 points per one role playing video clip

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Language Institute of SNU	Publisher	Seoul National University press	Textbook	I love Korean 1	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Unit 1. Learning Hangeul (1), (2)
Third week	Unit 2. Learning Hangeul (3), Classroom Korean and Greetings
Fourth week	Review of Unit 1, 2
Fifth week	Unit 3-1. I'm American
Sixth week	Unit 3-2. Ting-Ting, are you a student?
Seventh week	Unit 4-1. What is this?
Eighth week	Unit 4-2. Do you have any tissues?
Ninth week	Unit 5-1. Please, give me some orange juice.
Tenth week	Unit 5-2. Please, give me bibimbab and a bottle of cola.
Eleventh week	Unit 6-1. What are you doing?
Twelfth week	Unit 6-2. Where are you going?
Thirteenth week	Unit 7-1. What tastes delicious?
Fourteenth week	Unit 7-2. How much is it?
Fifteenth week	Unit 8-1. What time is it? / Final interview test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Level 1 Korean 1	Course Number	0000540002
Major / School Year	Dept. of Korean Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[15-115:화(5B-6),목(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Korean class for the beginners who can read and write Korean Alphabet

[2] Course Learning Outcomes

At the end of this course students will be able to:

- Develop basic Korean communication skills
- Use essential vocabulary, grammar and expressions for everyday situations

[3] Class Delivery Method

Lecture, practice, interactive activities, presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

roleplay 10%

quizes 20%

final written test 30%

final interview 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
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[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	SNU Press	Textbook	I Love Korean (1) Student's Book	Issued year	
(2)	Author		Publisher	SNU Press	Textbook	I Love Korean (1) Work Book	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Introductions (1)
Third week	Introductions (2)
Fourth week	Items and Objects (1)
Fifth week	Items and Objects (2)
Sixth week	Food and Ordering (1)
Seventh week	Food and Ordering (2)
Eighth week	Daily Life (1)
Ninth week	Daily Life (2)
Tenth week	Shopping (1)
Eleventh week	Shopping (2)
Twelfth week	Time and Date (1)
Thirteenth week	Time and Date (2)
Fourteenth week	Weather and Life (1)
Fifteenth week	Weather and Life (2) final test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Level 2 Korean 1	Course Number	0000542001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 김인규	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room	[15-120:수(1-2A)(2B-3)]	
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course is designed for learners transitioning from beginner to pre-intermediate Korean. It serves as a bridge for students moving toward the intermediate level.

[2] Course Learning Outcomes

By reflecting students' proficiency levels, this course employs diverse teaching and learning methods and focuses on learner-centered instruction to enhance their Korean language skills

[3] Class Delivery Method

1. Textbook Learning: Cover assigned study materials according to the designated syllabus.
2. Other Activities: Assess and guide practical Korean language proficiency through performance assessments and other coursework.
3. Review: Allow students to check and verify their own language proficiency.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	60 %	0 %	20 %	10 %	0 %	0 %

[4] Grading Policies

Midterm Exam

Final Exam

Performance Assessment (Presentation, Role-play, Quiz)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
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[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Korea University Korean Language Center	Publisher	Korea University Press(KU PRESS)	Textbook	Korea University Korean 2A	Issued year	2022
(2)	Author	Korea University Korean Language Center	Publisher	Korea University Press(KU PRESS)	Textbook	Korea University Korean 2B	Issued year	2021
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	2A Self-introduction(1)
Second week	2A Location(1)
Third week	2A Leisure Activities(1)
Fourth week	2A Health(1)
Fifth week	2A Favorites(1)
Sixth week	Special Class(1)
Seventh week	Presentation ㉔ / Review (Units 1–5)
Eighth week	Midterm Exam
Ninth week	2B Family(1)
Tenth week	2B Travel(1)
Eleventh week	2B Clothes Shopping(1)
Twelfth week	2B Congratulations & Consolation(1)
Thirteenth week	2B Saying Hello(1)
Fourteenth week	Presentation ㉕ / Review (Units 6–10)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

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CourseTitle	Level 2 Korean Practice 1	Course Number	0000549001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 김인규	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[15-120:수(7-8A)(8B-9)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

Improving Korean Proficiency for Learners Transitioning from Beginner to Intermediate Level

[2] Course Learning Outcomes

Reviewing and enhancing language skills, vocabulary, and grammar across the Level 2 Korean proficiency

[3] Class Delivery Method

Textbook Learning

Other Activities

Review

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	0 %	40 %	10 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	10 %	0 %	0 %

[4] Grading Policies

Midterm Exam

Final Exam

Performance Assessment (Presentation, Role-play, Quiz)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Korea University Korean Language Center	Publisher	Korea University Press(KU PRESS)	Textbook	Korea University Korean 2A	Issued year	2022
(2)	Author	Korea University Korean Language Center	Publisher	Korea University Press(KU PRESS)	Textbook	Korea University Korean 2B	Issued year	2021
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	2A Self-introduction(2)
Second week	2A Location(2)
Third week	2A Leisure Activities(2)
Fourth week	2A Healteh(2)
Fifth week	2A Favorites(2)
Sixth week	Special Class
Seventh week	Review(Unit 1~5)
Eighth week	Midterm Exam
Ninth week	2B Family(2)
Tenth week	2B Travel(2)
Eleventh week	2B Clothes Shopping(2)
Twelfth week	2B Congratulations & Consolation(2)
Thirteenth week	2B Saying Hello(2)
Fourteenth week	Review(Unit 6~10)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Presentation	submission date	
	purpose	improving Speaking Proficiency		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH CONVERSATION(2)	Course Number	AIB6094001
Major / School Year	Dept. of English Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class / lecture room	[15-116:월(1),수(1)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly used learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher. Class will be held offline. Assignments, weekly information and announcements, and schedules will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kristen L. Johannsen & Rebecca Tarver Chase	Publisher	Heinle/Cengage	Textbook	World English 3	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction
Second week	Chapter 1: People and Places
Third week	Chapter 2: The Mind
Fourth week	Chapter 4: The Good Life
Fifth week	Chapter 5: Survival
Sixth week	Chapter 6: Art Matters
Seventh week	Vocab Quiz #1 Discussion Day 1 Midterm Exam Preparation
Eighth week	Midterm Exam
Ninth week	Chapter 7: Getting Around
Tenth week	Chapter 9: Danger
Eleventh week	Chapter 10: Mysteries
Twelfth week	Chapter 12: Innovation
Thirteenth week	Presentations
Fourteenth week	Discussion Day 2 Final Exam Preparation Vocab Quiz #2
Fifteenth week	Final Exam
Sixteenth week	Makeup Class for Chuseok holidays

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH CONVERSATION(2)		Course Number	AIB6094004		
Major / School Year	Dept. of English Language & Literature / 1		completion division /Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature / Anthony Wayne		Grades/Lecture/ Practice	1	/	0 / 2
Phone Number		A weekday / class / lecture room	[15-118B:월(7)] [15-317:목(7)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. Not only will the students be practicing their English but they will also be learning how to employ communication strategies to increase their ability to hold conversatins in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textboo and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for five minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed on the students themselves. Task-based learning and Guided discover learning will also be used to suppor thte students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
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[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	People and places
Second week	Where we live
Third week	The good live
Fourth week	Survival
Fifth week	Getting around
Sixth week	Competition
Seventh week	Quiz
Eighth week	Midterm test
Ninth week	Danger
Tenth week	Discussion day
Eleventh week	Mysteries
Twelfth week	Learning
Thirteenth week	Innovation
Fourteenth week	Quiz
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH CONVERSATION(2)	Course Number	AIB6094003
Major / School Year	Dept. of English Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / Anthony Wayne	Grades/Lecture/Practice	1 / 0 / 2
Phone Number	A weekday / class / lecture room [15-403:월(1),수(1)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. Not only will the students be practicing their English but they will also be learning how to employ communication strategies to increase their ability to hold conversatins in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textboo and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for five minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed on the students themselves. Task-based learning and Guided discover learning will also be used to suppor thte students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	People and places
Second week	Where we live
Third week	The good live
Fourth week	Survival
Fifth week	Getting around
Sixth week	Competition
Seventh week	Quiz
Eighth week	Midterm test
Ninth week	Danger
Tenth week	Discussion day
Eleventh week	Mysteries
Twelfth week	Learning
Thirteenth week	Innovation
Fourteenth week	Quiz
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH CONVERSATION(2)	Course Number	AIB6094002
Major / School Year	Dept. of English Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number	A weekday / class / lecture room		[15-403:월(7),목(7)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly used learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher. Class will be held offline. Assignments, weekly information and announcements, and schedules will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kristen L. Johannsen & Rebecca Tarver Chase	Publisher	Heinle/Cengage	Textbook	World English 3	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction
Second week	Chapter 1: People and Places
Third week	Chapter 2: The Mind
Fourth week	Chapter 4: The Good Life
Fifth week	Chapter 5: Survival
Sixth week	Chapter 6: Art Matters
Seventh week	Vocab Quiz #1 Discussion Day 1 Midterm Exam Preparation
Eighth week	Midterm Exam
Ninth week	Chapter 7: Getting Around
Tenth week	Chapter 9: Danger
Eleventh week	Chapter 10: Mysteries
Twelfth week	Chapter 12: Innovation
Thirteenth week	Presentations
Fourteenth week	Discussion Day 2 Final Exam Preparation Vocab Quiz #2
Fifteenth week	Final Exam
Sixteenth week	Makeup Class for Chuseok holidays

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH COMPOSITION(1)	Course Number	AIB6095001
Major / School Year	Dept. of English Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number	A weekday / class / lecture room		[15-118B:월(4)] [15-317:수(7)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

Students will be able to form a complete, cohesive paragraph using methods taught in class. Students will then build on their knowledge of paragraphs to form a five paragraph essay.

[2] Course Learning Outcomes

Students will know how to write a well-organized paragraph and five-paragraph essay by the end of the semester.

[3] Class Delivery Method

Class will be held offline. Students will work in pairs to complete and check bookwork and worksheets, and peer edit homework paragraphs and essay assignments. Information, including homework assignments, syllabus, and other important notices and announcements, will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dorothy E. Zemach & Lisa A. Ghulldu	Publisher	Macmillan Education	Textbook	Writing Essays 3: From Paragraph to Essay	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction Chapter 1: Pre-Writing: Getting Ready to Write
Second week	Chapter 2: The Structure of a Paragraph
Third week	Chapter 3: The Development of a Paragraph
Fourth week	Chapter 3: The Development of a Paragraph (Part 2)
Fifth week	Chapter 4: Descriptive Paragraphs
Sixth week	Chapter 5: Comparison/Contrast Paragraphs
Seventh week	Chapter 6: Problem/Solution Paragraphs
Eighth week	Paragraph workshops Paragraph Due Paragraph Quiz
Ninth week	Midterm writing exam
Tenth week	Chapter 8: The Structure of an Essay
Eleventh week	Chapter 9: Outlining an Essay
Twelfth week	Chapter 10: Introductions
Thirteenth week	Chapter 10: Conclusions
Fourteenth week	Chapter 11: Unity and Coherence Final Essay Due Essay Quiz
Fifteenth week	Final Writing Exam
Sixteenth week	Possible makeup classes for Chuseok holiday

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH COMPOSITION(1)		Course Number	AIB6095004	
Major / School Year	Dept. of English Language & Literature / 1		completion division /Grade evaluation	/	
Department/Professor	Dept. of English Language & Literature / Anthony Wayne		Grades/Lecture/ Practice	1 / 0 / 2	
Phone Number		A weekday / class / lecture room	[15-116:금(4)] [15-118B:목(4)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

The purpose of this class is to give students a solid foundation for essay writing in a short time. The aim is to make them familiar with how to write essays and give them the ability to write in an academic setting.

[2] Course Learning Outcomes

Brainstorm efficiently
Generate ideas
Organize material
Order and link paragraphs
Write cohesive and coherent essays
Know how to write different kinds of essays
Draft, review and revise written work

[3] Class Delivery Method

The method of teaching will be more teacher led than in conversation classes but will still require the students to interact with each other in English. A slightly altered communicative method approach is used by the teacher and will be adapted to suit this writing based class.

④ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

④ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class information, rules and icebreakers
Second week	Pre-writing
Third week	The structure of a paragraph
Fourth week	The development of a paragraph
Fifth week	Introductions and conclusions
Sixth week	Descriptive paragraphs
Seventh week	Opinion paragraphs
Eighth week	Comparison/contrast paragraphs Midterm test
Ninth week	Problem/solution paragraphs
Tenth week	The structure of an essay
Eleventh week	Outlining an essay
Twelfth week	Introductions and conclusions
Thirteenth week	Unity and coherence
Fourteenth week	Essays for examinations
Fifteenth week	Final test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH COMPOSITION(1)		Course Number	AIB6095003		
Major / School Year	Dept. of English Language & Literature / 1		completion division /Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature / Anthony Wayne		Grades/Lecture/ Practice	1	/	0 / 2
Phone Number		A weekday / class / lecture room	[15-116:월(4)] [15-403:수(7)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

The purpose of this class is to give students a solid foundation for essay writing in a short time. The aim is to make them familiar with how to write essays and give them the ability to write in an academic setting.

[2] Course Learning Outcomes

Brainstorm efficiently
Generate ideas
Organize material
Order and link paragraphs
Write cohesive and coherent essays
Know how to write different kinds of essays
Draft, review and revise written work

[3] Class Delivery Method

The method of teaching will be more teacher led than in conversation classes but will still require the students to interact with each other in English. A slightly altered communicative method approach is used by the teacher and will be adapted to suit this writing based class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class information, rules and icebreakers
Second week	Pre-writing
Third week	The structure of a paragraph
Fourth week	The development of a paragraph
Fifth week	Introductions and conclusions
Sixth week	Descriptive paragraphs
Seventh week	Opinion paragraphs
Eighth week	Comparison/contrast paragraphs Midterm test
Ninth week	Problem/solution paragraphs
Tenth week	The structure of an essay
Eleventh week	Outlining an essay
Twelfth week	Introductions and conclusions
Thirteenth week	Unity and coherence
Fourteenth week	Essays for examinations
Fifteenth week	Final test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH COMPOSITION(1)		Course Number	AIB6095002		
Major / School Year	Dept. of English Language & Literature / 1		completion division /Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스		Grades/Lecture/ Practice	1	/	0 / 2
Phone Number		A weekday / class / lecture room	[15-403:목(4),금(4)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Students will be able to form a complete, cohesive paragraph using methods taught in class. Students will then build on their knowledge of paragraphs to form a five paragraph essay.

[2] Course Learning Outcomes

Students will know how to write a well-organized paragraph and five-paragraph essay by the end of the semester.

[3] Class Delivery Method

Class will be held offline. Students will work in pairs to complete and check bookwork and worksheets, and peer edit homework paragraphs and essay assignments. Information, including homework assignments, syllabus, and other important notices and announcements, will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dorothy E. Zemach & Lisa A. Ghulldu	Publisher	Macmillan Education	Textbook	Writing Essays 3: From Paragraph to Essay	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction Chapter 1: Pre-Writing: Getting Ready to Write
Second week	Chapter 2: The Structure of a Paragraph
Third week	Chapter 3: The Development of a Paragraph
Fourth week	Chapter 3: The Development of a Paragraph (Part 2)
Fifth week	Chapter 4: Descriptive Paragraphs
Sixth week	Chapter 5: Comparison/Contrast Paragraphs
Seventh week	Chapter 6: Problem/Solution Paragraphs
Eighth week	Paragraph workshops Paragraph Due Paragraph Quiz
Ninth week	Midterm writing exam
Tenth week	Chapter 8: The Structure of an Essay
Eleventh week	Chapter 9: Outlining an Essay
Twelfth week	Chapter 10: Introductions
Thirteenth week	Chapter 10: Conclusions
Fourteenth week	Chapter 11: Unity and Coherence Final Essay Due Essay Quiz
Fifteenth week	Final Writing Exam
Sixteenth week	Possible makeup classes for Chuseok holiday

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH CONVERSATION(4)		Course Number	AIB6014001		
Major / School Year	Dept. of English Language & Literature / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature / Anthony Wayne		Grades/Lecture/ Practice	1	/	0 / 2
Phone Number		A weekday / class / lecture room	[15-116:목(1)] [15-403:수(3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. Not only will the the students be practicing to improve their English but they will also be learning how to emply communication strategies to increase their ability to hold conversations in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming rom their textbook and being grammar, functional lnaguage and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for 5 minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language thatyey have learned in conversations and general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed on the students themselves. Task-based learning and guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class information, rules, icebreakers
Second week	Engineered by nature
Third week	Engineered by nature
Fourth week	Lending a hand
Fifth week	Lending a hand
Sixth week	Lending a hand
Seventh week	Quiz
Eighth week	Midterm test
Ninth week	Less is more
Tenth week	Less is more
Eleventh week	Less is more
Twelfth week	Justice in the jungle
Thirteenth week	Justice in the jungle
Fourteenth week	Quiz
Fifteenth week	Final test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH COMPOSITION(3)	Course Number	AIB6013001
Major / School Year	Dept. of English Language & Literature / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number	A weekday / class / lecture room		[15-116:수(4),금(7)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

Students will learn how to find, evaluate, and correctly cite sources; incorporate sourced information into their work to support their arguments through paraphrasing, summarizing, and synthesizing the information; and create strong, clear, and focused thesis statements.

[2] Course Learning Outcomes

By the end of class, students should be able to build a clear reference list, smoothly insert sourced information into their essay and correctly site it, and state their argument in a strong research-paper thesis statement.

[3] Class Delivery Method

Class will be held offline. Students will work in pairs to complete and check bookwork and worksheets, and peer edit homework and essay assignments. Weekly information, assignment details, and schedules will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Keith S. Folse and Tison Pugh	Publisher	Heinle/Cengage	Textbook	Great Writing Book 5: From Great Essays to Research	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction Essay Review and Research Essay Introduction
Second week	Unit 8: Research Paper – Types of Sources
Third week	Unit 8: Research Paper – Evaluating Sources
Fourth week	Unit 8: Research Paper – APA Citations
Fifth week	Unit 8: Research Paper – MLA Citations
Sixth week	Chapter 3: Paraphrasing, Summarizing, Synthesizing, and Citing Sources (Part 2)
Seventh week	In-class assignment preparation and delivery
Eighth week	Midterm Exam
Ninth week	Unit 3: Quotations
Tenth week	Unit 3: Paraphrasing
Eleventh week	Unit 3: Summarizing
Twelfth week	Unit 3: Synthesizing
Thirteenth week	Citations In-Class Work Unit 1: Thesis Statements
Fourteenth week	Unit 1: Thesis Statements In-Class Work
Fifteenth week	Final Exam
Sixteenth week	Possible makeup classes for Chuseok and other holidays

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH PHONETICS		Course Number	AIB6009001		
Major / School Year	Dept. of English Language & Literature / 2		completion division / Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature / 정예지		Grades/Lecture/Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[15-116:월(2B-3),수(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is designed to provide a scientific explanation of English consonants and vowels largely from the perspective of articulatory phonetics. Students will be prompted to transcribe a variety of English speeches using the International Phonetic Alphabet.

[2] Course Learning Outcomes

By the end of this course, students are expected to be able to

1. explain English sounds using the appropriate articulatory terms.
2. use the International Phonetic Alphabet to transcribe English sounds.
3. interpret phonetic transcriptions.
4. understand how phonological processes modify speech sounds.
5. learn about application of phonetics in various area

[3] Class Delivery Method

The course is mainly composed of lectures (delivered through computer presentations), discussion on the topic, and in-class exercises. This class will be taught in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

**Please note that this policy is subject to change.

Midterm: 30%

Final exam: 30%

In-class quizzes: 10%

Group assignments: 10%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	L. H. Small	Publisher	Pearson	Textbook	Fundamentals of phonetics: A practical guides for students	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Peter Roach	Publisher	Cambridge	Textbook	English Phonetics and Phonology	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction, Basics
Second week	Introduction to phonetics and IPA
Third week	IPA continued, phonemes and allophones
Fourth week	Speech production mechanism
Fifth week	Vowels
Sixth week	Vowels continued, Consonants
Seventh week	Consonants
Eighth week	Midterm
Ninth week	Syllables
Tenth week	Word Stress
Eleventh week	Intonation
Twelfth week	Connected Speech
Thirteenth week	Dialectal variation
Fourteenth week	Review, acoustic phonetics
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH PHONETICS		Course Number	AIB6009002		
Major / School Year	Dept. of English Language & Literature / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature / 정예지		Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[15-118A:목(5B-6)] [15-403:월(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is designed to provide a scientific explanation of English consonants and vowels largely from the perspective of articulatory phonetics. Students will be prompted to transcribe a variety of English speeches using the International Phonetic Alphabet.

[2] Course Learning Outcomes

By the end of this course, students are expected to be able to

1. explain English sounds using the appropriate articulatory terms.
2. use the International Phonetic Alphabet to transcribe English sounds.
3. interpret phonetic transcriptions.
4. understand how phonological processes modify speech sounds.
5. learn about application of phonetics in various area

[3] Class Delivery Method

The course is mainly composed of lectures (delivered through computer presentations), discussion on the topic, and in-class exercises. This class will be taught in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

**Please note that this policy is subject to change.

Midterm: 30%

Final exam: 30%

In-class quizzes: 10%

Group assignments: 10%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	L. H. Small	Publisher	Pearson	Textbook	Fundamentals of phonetics: A practical guides for students	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Peter Roach	Publisher	Cambridge	Textbook	English Phonetics and Phonology	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction, Basics
Second week	Introduction to phonetics and IPA
Third week	IPA continued, phonemes and allophones
Fourth week	Speech production mechanism
Fifth week	Vowels
Sixth week	Vowels continued, Consonants
Seventh week	Consonants
Eighth week	Midterm
Ninth week	Syllables
Tenth week	Word Stress
Eleventh week	Intonation
Twelfth week	Connected Speech
Thirteenth week	Dialectal variation
Fourteenth week	Review, acoustic phonetics
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Eighteenth and Nineteenth Century British Novel		Course Number	0006948001		
Major / School Year	Dept. of English Language & Literature	2	completion division / Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature	하인혜	Grades/Lecture/Practice	3	/	3 / 0
Phone Number	8121	A weekday / class / lecture room	[15-403:화(2B-3), 목(2B-3)]			
Office hours	Tuesdays 3-4 PM or by appointment		Medium of Instruction	EN		

[1] Outline / Purpose

This course focuses on Jane Austen's *Pride and Prejudice* as a way to explore not only Britain during the Regency era, but also the long history of cinematic adaptations of the novel. We will situate *Pride and Prejudice* in the social relations of Regency Britain: the entail, the marriage market, the narrow economy of genteel women's options. The first half of the semester is dedicated to reading the entire novel. Then we will spend the second half of the semester on the works that the novel has generated first in print, and then on screen. In doing so, we will ask in each case what the rewriting adds, takes out, and complicates.

The screen strand runs from the 1940 MGM film through the 1995 BBC serial and Joe Wright's 2005 feature to the loose and transnational adaptations — *Bridget Jones's Diary* (2001), *Bride & Prejudice* (2004), *Fire Island* (2022) — and ends with the two adaptations released during the Austen 250th-anniversary period, which we will be watching more or less as the rest of the world does. That timing is an opportunity: reception is usually something we reconstruct from archives, and this semester we can observe it happening. Your final project asks you to propose an adaptation of your own and to defend the choices it makes.

[2] Course Learning Outcomes

- Read *Pride and Prejudice* closely and completely, and account for its narrative technique, such as free indirect discourse, ironic distance, the uneven distribution of interiority.
- Situate the novel in the specific social relations of Regency Britain: property, entail, class mobility, and the economics of marriage.
- Distinguish among the modes of rewriting—adaptation, appropriation, sequel, prequel, minor-character elaboration, transposition—and use the critical vocabulary accurately.
- Analyze print and screen rewritings as arguments about the source text rather than as more or less faithful copies of it.
- Situate Austen's circulation beyond Britain, including her reception and adaptation in Asia, and reflect on what is at stake in reading her from Korea.
- Produce sustained written and oral analysis supported by primary evidence and current secondary scholarship.

[3] Class Delivery Method

Lecture and Discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	60 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jane Austen	Publisher	Oxford University Press	Textbook	<i>Pride and Prejudice</i>	Issued year	
(2)	Author	Janice Hadlow	Publisher	Henry Holt / Mantle	Textbook	<i>The Other Bennet Sister</i>	Issued year	2020
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Course Intro to Jane Austen Intro to the Regency England and Its Culture – Landed gentry, the entail, the marriage market, women's property. – Why 1813 matters? Watch: Becoming Jane
Second week	Becoming Jane – About the biopic and the making of "Jane Austen" – How a life becomes a marketable romance plot P&P Vol. 1, Ch. 1–6 Free indirect discourse Reading: Looser, The Making of Jane Austen
Third week	P&P Vol. 1, Ch. 7–18
Fourth week	P&P Vol. 1, Ch. 19–23 Workshop: Characterization and the space they occupy
Fifth week	P&P Vol. 2, Ch. 1–13
Sixth week	P&P Vol. 2, Ch. 14–19
Seventh week	P&P Vol. 3, Ch. 6–12
Eighth week	P&P Vol. 3, Ch. 13–19 Wrap-up Discussion
Ninth week	Review Session & Midterm Exam
Tenth week	– Theories of rewriting: Appropriation, Interpolation, Sequel, Prequel – Hadlow, The Other Bennet Sister
Eleventh week	Screen (1) P&P 1940 (dir. Leonard) and 1995 (BBC, wr. Davies)
Twelfth week	Screen (2) Bridget Jones's Diary (2001) and Bride & Prejudice (2004)
Thirteenth week	Screen (3) Pride & Prejudice (2005, dir. Wright)
Fourteenth week	Screen (4) The Other Bennet Sister (BBC One / BritBox, 2026) Wrap-up Discussion
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The second assignment	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERMEDIATE ENGLISH CONVERSATION(2)	Course Number	AIB6085001
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / Anthony Wayne	Grades/Lecture/Practice	1 / 0 / 2
Phone Number	A weekday / class / lecture room [15-116:금(6)] [15-403:수(4)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly used learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher. Class will be held offline. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Syllabus and class introduction. Unit 7.
Second week	Unit 7
Third week	Unit 8
Fourth week	Unit 8
Fifth week	Unit 9
Sixth week	Unit 9. Quiz / Presentation
Seventh week	Exam Preparation
Eighth week	Midterm Exam
Ninth week	Unit 10
Tenth week	Unit 10
Eleventh week	Unit 11
Twelfth week	Unit 11
Thirteenth week	Unit 12.
Fourteenth week	Unit 12. Quiz / Presentation. Final preparation.
Fifteenth week	Final Exam
Sixteenth week	Holiday Makeup Classes.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Shakespeare	Course Number	0004455001
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 하인혜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	8121	A weekday / class / lecture room	[15-403:월(4-5A),목(1-2A)]
Office hours	Tuesdays 3-4 PM or by appointment	Medium of Instruction	EN

[1] Outline / Purpose

This course introduces students to Shakespeare's work by way of a single, deliberately narrow question: what makes a play a tragedy, and what happens to tragedy when a dramatist refuses to let it end in death? We begin with two sonnets as a sampler of Shakespeare the poet, then spend the bulk of the semester on two plays written within roughly five years of each other: King Lear (c. 1605-06) and The Winter's Tale (c. 1610-11). . Reading them in sequence lets us treat genre not as a label applied after the fact but as a set of expectations that a play can satisfy, frustrate, or reinvent in performance. Because both plays are also documents of Tudor-Stuart England, we will spend real time on their historical situation: the union of the crowns and the politics of divided kingdoms; the Reformation's dismantling of confession, penance, and the cult of images; the law of inheritance and the position of the aged; England's expanding commercial and colonial reach; and the changing status of the human in relation to animals and the natural world. Recent scholarship has transformed how each of these topics bears on the plays, and a portion of our reading each week will be secondary criticism published in the last two decades.

The format is lecture-discussion, with the strongest emphasis on the interactive and collaborative act of grappling with the play-text. Class sessions typically combine short lectures, student-led discussion, group work, and viewing of film clips or clips from live productions. Above all, we will work through the plays together, reading them for the embedded stage directions they contain and often blocking key scenes in class. Keep in mind that our readings are lively and rich, but rarely easy. You are not alone in your struggles to make sense of Shakespeare's complex and challenging writing. Relax, face the difficulty with patience and good cheer, and seek help from me. Leave yourself ample time for each text, since Renaissance works generally take longer to read than literature from later periods. Look up early modern words you don't know, either in the notes to your edition or in the Oxford English Dictionary. Know that you are always welcome in office hours, no matter how small the point of concern. I will do everything in my power to help you, but you must first take responsibility for your own education.

[2] Course Learning Outcomes

- Read a Shakespearean play-text closely and out loud, attending to verse, wordplay, and embedded stage directions;
- Describe the conventions of early modern tragedy and tragicomedy, and explain why those conventions have been contested by critics from Sidney and Guarini to the present;
- Situate a play in the religious, political, economic, and environmental history of Tudor-Stuart England, using evidence rather than generalization;
- Summarize a piece of published literary scholarship accurately and evaluate its argument against the primary text;
- Build an interpretive claim of your own, in writing and in discussion, and revise it when the evidence pushes back.

[3] Class Delivery Method

Lecture and Discussion

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	Cambridge University Press	Textbook	King Lear	Issued year	

(2)	Author		Publisher	Bloomsbury	Textbook	The Winter's Tale	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	[Introduction: Poet, Playwright, Genre] Introduction to Shakespeare and to this course. What we mean by "early modern."
Second week	What Is a Tragedy? — Aristotle, Poetics chs. 6–14 — King Lear, 1.1–1.5
Third week	King Lear 2.1–2.2 — Edmund's soliloquy and the language of nature King Lear 2.3–2.4.
Fourth week	On The Storm (Act 3)
Fifth week	On Radical Vulnerability — Lewis, "Forked Animals" — King Lear 4.1–4.5
Sixth week	King Lear 4.6–4.7. — The reunion of Lear and Cordelia
Seventh week	King Lear 5.1–5.3. — The Two Endings: Q and F compared — Wrap-up Question
Eighth week	Midterm Exam
Ninth week	Tragicomedy and Romance: The Winter's Tale — On genre: tragedy, comedy, tragicomedy — The Winter's Tale 1.1–1.2.
Tenth week	On Tyranny The Winter's Tale 2.1. — Hermione and Mamillius: the sad tale for winter. — The Winter's Tale 2.2–2.3. Paulina and the infant.
Eleventh week	The Trial and the Oracle — The Winter's Tale Act 3
Twelfth week	Configuration of Time — The Winter's Tale Act 4
Thirteenth week	Reconciliation & Restoration — The Winter's Tale Act 5 — Genre Study on Comedy and Tragicomedy
Fourteenth week	Presentation (1)
Fifteenth week	Presentation (2) Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Shakespeare	Course Number	0004455002
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 하인혜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	8121	A weekday / class / lecture room	[15-116:화(5B-6), 목(5B-6)]
Office hours	Tuesdays 3-4 PM or by appointment	Medium of Instruction	EN

[1] Outline / Purpose

This course introduces students to Shakespeare's work by way of a single, deliberately narrow question: what makes a play a tragedy, and what happens to tragedy when a dramatist refuses to let it end in death? We begin with two sonnets as a sampler of Shakespeare the poet, then spend the bulk of the semester on two plays written within roughly five years of each other: King Lear (c. 1605-06) and The Winter's Tale (c. 1610-11). . Reading them in sequence lets us treat genre not as a label applied after the fact but as a set of expectations that a play can satisfy, frustrate, or reinvent in performance. Because both plays are also documents of Tudor-Stuart England, we will spend real time on their historical situation: the union of the crowns and the politics of divided kingdoms; the Reformation's dismantling of confession, penance, and the cult of images; the law of inheritance and the position of the aged; England's expanding commercial and colonial reach; and the changing status of the human in relation to animals and the natural world. Recent scholarship has transformed how each of these topics bears on the plays, and a portion of our reading each week will be secondary criticism published in the last two decades.

The format is lecture-discussion, with the strongest emphasis on the interactive and collaborative act of grappling with the play-text. Class sessions typically combine short lectures, student-led discussion, group work, and viewing of film clips or clips from live productions. Above all, we will work through the plays together, reading them for the embedded stage directions they contain and often blocking key scenes in class. Keep in mind that our readings are lively and rich, but rarely easy. You are not alone in your struggles to make sense of Shakespeare's complex and challenging writing. Relax, face the difficulty with patience and good cheer, and seek help from me. Leave yourself ample time for each text, since Renaissance works generally take longer to read than literature from later periods. Look up early modern words you don't know, either in the notes to your edition or in the Oxford English Dictionary. Know that you are always welcome in office hours, no matter how small the point of concern. I will do everything in my power to help you, but you must first take responsibility for your own education.

[2] Course Learning Outcomes

- Read a Shakespearean play-text closely and out loud, attending to verse, wordplay, and embedded stage directions;
- Describe the conventions of early modern tragedy and tragicomedy, and explain why those conventions have been contested by critics from Sidney and Guarini to the present;
- Situate a play in the religious, political, economic, and environmental history of Tudor-Stuart England, using evidence rather than generalization;
- Summarize a piece of published literary scholarship accurately and evaluate its argument against the primary text;
- Build an interpretive claim of your own, in writing and in discussion, and revise it when the evidence pushes back.

[3] Class Delivery Method

Lecture and Discussion

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	Cambridge University Press	Textbook	King Lear	Issued year	

(2)	Author		Publisher	Bloomsbury	Textbook	The Winter's Tale	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	[Introduction: Poet, Playwright, Genre] Introduction to Shakespeare and to this course. What we mean by "early modern."
Second week	What Is a Tragedy? — Aristotle, Poetics chs. 6–14 — King Lear, 1.1–1.5
Third week	King Lear 2.1–2.2 — Edmund's soliloquy and the language of nature King Lear 2.3–2.4.
Fourth week	On The Storm (Act 3)
Fifth week	On Radical Vulnerability — Lewis, "Forked Animals" — King Lear 4.1–4.5
Sixth week	King Lear 4.6–4.7. — The reunion of Lear and Cordelia
Seventh week	King Lear 5.1–5.3. — The Two Endings: Q and F compared — Wrap-up Question
Eighth week	Midterm Exam
Ninth week	Tragicomedy and Romance: The Winter's Tale — On genre: tragedy, comedy, tragicomedy — The Winter's Tale 1.1–1.2.
Tenth week	On Tyranny The Winter's Tale 2.1. — Hermione and Mamillius: the sad tale for winter. — The Winter's Tale 2.2–2.3. Paulina and the infant.
Eleventh week	The Trial and the Oracle — The Winter's Tale Act 3
Twelfth week	Configuration of Time — The Winter's Tale Act 4
Thirteenth week	Reconciliation & Restoration — The Winter's Tale Act 5 — Genre Study on Comedy and Tragicomedy
Fourteenth week	Presentation (1)
Fifteenth week	Presentation (2)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	The History of English	Course Number	0010774001
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윤소연	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[15-403:월(2B-3),수(5B-6)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

This is an introductory course for the history of the English language.

[2] Course Learning Outcomes

The goal of this course is to acquire the knowledge of both the internal and external history of English: how the English language has changed with the history of English-speaking countries. In order to understand this course, students must have the basic knowledge of phonetics, phonology, morphology, syntax, and semantics. The course would provide a foundation of understanding present-day English.

[3] Class Delivery Method

The lectures will be delivered in English. Students are also required to speak in English in their presentation.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance and participation	20%
Presentation	20%
Midterm exams	30%
Final exam	30%

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Stephan Gramley	Publisher	Routledge	Textbook	The History of English: An Introduction (2nd Ed)	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Millward, C. M., Hayes, M.	Publisher	Cengage Learning	Textbook	A Biography of the English Language (3rd Ed)	Issued year	2012
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	The origins of human language (before 450)
Third week	Indo-European Language
Fourth week	Old English: early Germanic Britain (450–700)
Fifth week	Old English: the Viking invasions and their consequences (700–1066/1100)
Sixth week	Middle English: the non-standard period (1066/110–1350)
Seventh week	Middle English: the emergence of Standard English (1350–1500)
Eighth week	Midterm Exam
Ninth week	Early Modern English period (1500–1700)
Tenth week	Early Modern English period (1500–1700)
Eleventh week	The spread of English (since late sixteenth century)
Twelfth week	English pidgins, English creoles, and English (since the early 17th century)
Thirteenth week	Changes in Modern English
Fourteenth week	Changes in Modern English
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Special Topic in English Literature	Course Number	0006947001
Major / School Year	Dept. of English Language & Literature / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[15-116:수(2B-3),금(2B-3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course examines how the Western literary canon and mythological elements are reinterpreted and expanded within contemporary media ecosystems. Moving beyond mere textual analysis, we will focus on identifying the structures of 'transmedia storytelling,' ranging from Shakespearean foundations to modern Disney and Marvel franchises. Through this, students will cultivate the profound humanistic insight expected of English majors while developing the critical thinking and planning skills required in today's rapidly evolving content industry.

[2] Course Learning Outcomes

Students will critically analyze the structural and thematic transformation of the canon and mythology as they transition into contemporary transmedia ecosystems. Moving beyond simple textual analysis, students will formulate original research methodologies to evaluate transmedia narrative strategies. Ultimately, students will aim to produce publishable academic research papers that contribute to the discourse on literary adaptation and transmedia storytelling, while refining high-level academic writing and conference presentation skills.

[3] Class Delivery Method

This course employs an integrated learning approach combining lectures, seminar discussions, and practical workshops to facilitate theoretical understanding, critical text analysis, and hands-on content planning skills.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	W1.1 Introduction & Orientation W1.2 What is Transmedia? (I)W1.1 Introduction & Orientation W1.2 What is Transmedia? (I)
Second week	W2.1 What is Transmedia? (II): The Logic of Storytelling W2.2 Case Study: Disney's World-building
Third week	W3.1 Shakespearean Roots (Selected Scenes from Hamlet) W3.2 Discussion: Analyzing Viral Shakespearean Memes
Fourth week	W4.1 Reimagining Classical Archetypes (Selected Scenes from Romeo and Juliet) W4.2 Discussion: Shakespeare and Modern Pop Culture Adaptations
Fifth week	W5.1 Canon to transmedia W5.2 Case Study: The MCU and Literary Tropes
Sixth week	W6.1 Expansion Strategies W6.2 Group Work: Mapping Out a Narrative Universe
Seventh week	W7.1 Writing Guide W7.2 Midterm Analysis Proposal
Eighth week	W8.1 Review W8.2 Midterm Paper Submission
Ninth week	W9.1 Digital Storytelling & Fandoms W9.2 Case Study: The Role of Participatory Culture
Tenth week	W10.1 Graphic Novels & Narrative Flow W10.2 Discussion: Analyzing Sequential Art Narratives
Eleventh week	W11.1 Brand Building via Mythology W11.2 Integrating Mythic Tropes into Ad Campaigns
Twelfth week	W12.1 Content Promotion Strategies W12.2 Group Work: Developing a Transmedia Promo Plan
Thirteenth week	W13.1 Translating Practice into Theory W13.2 Final Paper revision (1)
Fourteenth week	W14.1 Structuring the Final Essay W14.2 Final Paper revision (2)
Fifteenth week	W15.1 Review W15.2 Final Paper Submission
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	MATHEMATICAL PHYSICS(2)	Course Number	BKB6012001
Major / School Year	Dept. of Physics / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physics / 언후 도르츠	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358219	A weekday / class / lecture room	[05-421:수(1-2A),금(1-2A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Mathematical physics refers to development of mathematical methods for application to problems in physics. This course provides the details of mathematical apparatus, and some derivations and proofs for the mathematical formulations.

[2] Course Learning Outcomes

To acquire a comprehensive knowledge on mathematical concepts which will be used as a tool for physics problems in the subsequent physics courses.

[3] Class Delivery Method

Lectures mostly with board notes and ppt slides as a supplementary

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	10 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
90 %	0 %	10 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

attendance 20%

homeowrk 20%

midterm 30%

final exam 30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	Elsevier LLC	Textbook	G. B. Arfken, H.J. Weber, and F. E. Harris, Mathematical Methods for Physicists: A comprehensive guide	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Eigenvalue problems
Third week	Eigenvalue problems
Fourth week	Ordinary differential equations
Fifth week	Ordinary differential equations
Sixth week	Partial differential equations
Seventh week	Partial differential equations
Eighth week	Midterm
Ninth week	Green function
Tenth week	Gamma function
Eleventh week	Bessel functions
Twelfth week	Legendre functions
Thirteenth week	Angular momentum and More special functions
Fourteenth week	Fourier series
Fifteenth week	Integral transforms and Integral equations
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	General Chemistry(2)		Course Number	0001189001		
Major / School Year	Dept. of Chemistry	/ 1	completion division / Grade evaluation	/		
Department/Professor	Dept. of Chemistry	/ 그레고리 아 이작 피터슨	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[05-506:월(5B-6)] [05-507:수(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is an introductory program covering core concepts that form the foundation of chemistry and related majors. In particular, the course focuses on learning the basic principles of thermodynamics and reaction kinetics, which are essential for understanding and explaining chemical reactions. Through this, students are equipped with a foundation to understand the major fields they will cover in their later years. Additionally, it fosters chemical thinking skills and problem-solving abilities.

[2] Course Learning Outcomes

- (1) Understand the behavior of solids, liquids, gases, and solutions according to their states of matter and be able to explain them quantitatively.
- (2) Explain the progression of chemical reactions by utilizing the concepts of chemical reaction rates and chemical equilibrium.
- (3) Understand and calculate equilibrium conditions for acid-base, redox, and precipitation reactions occurring in aqueous solutions.
- (4) Understand the physical meaning of the laws of thermodynamics and state functions, and through this, be able to explain the energy changes of chemical systems.

[3] Class Delivery Method

- (1) Understand the basic concepts and principles of chemistry through lectures based on the main textbook and problem-solving exercises.
- (2) Develop application skills by applying the chemical principles learned in class through practice problem-solving assignments.

④ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

30% Mid-term exam

30% Final exam

20% Quizzes

20% Attendance

④ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robinson, McMurry, Fay	Publisher	Pearson	Textbook	Chemistry, 8th Edition, Global Edition	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation Chapter 10: Gases: Properties and Behavior of Gases
Second week	Chapter 10: Gases: Properties and Behavior of Gases Chapter 11: Liquids and Phase Changes
Third week	Chapter 12: Solids and Solid-Phase Materials
Fourth week	Chapter 13: Solutions and Properties of Solutions
Fifth week	Chapter 14: Chemical Reaction Kinetics
Sixth week	Chapter 14: Chemical Reaction Kinetics Chapter 15: Chemical Equilibrium
Seventh week	Chapter 15: Chemical Equilibrium
Eighth week	Mid-term Exam
Ninth week	Chapter 16: Aqueous Solution Equilibrium: Acids and Bases
Tenth week	Chapter 16: Aqueous Solution Equilibrium: Acids and Bases
Eleventh week	Chapter 17: Applications of Aqueous Solution Equilibrium
Twelfth week	Chapter 17: Applications of Aqueous Solution Equilibrium
Thirteenth week	Chapter 18: Thermodynamics: Entropy, Free Energy, and Spontaneity
Fourteenth week	Chapter 19: Electrochemistry
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quizzes	submission date	
	purpose	Students can track their progress throughout the semester		
	procedure & notice	Several quizzes will be given throughout the semester after the conclusion of selected chapters.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ORGANIC CHEMISTRY(2)		Course Number	BKC6005001		
Major / School Year	Dept. of Chemistry	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Chemistry	/ 김태현	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[05-335:월(2B-3)] [05-507:금(1-2A)]			
Office hours			Medium of Instruction	ES		

[1] Outline / Purpose

본 교과목은 유기화합물들의 구조, 명명법 및 그들의 성질을 이해하고, 그들의 반응메카니즘을 이용하여 각 화합물들의 제법 및 각 반응들에 관해 이해시키고자 한다.

또한, 본 강좌는 이와같은 유기 화학의 기본 원리를 이용하여 보다 복잡한 화합물의 합성, 유기 반응에 있어 선택성에 대한 이해 및 유기 분자의 구조 분석 능력등을 키우는데 그 목적이 있다.

[2] Course Learning Outcomes

본 수업을 통하여 유기화합물의 구조, 성질, 명명법, 제법, 반응, 반응성, 반응 선택성, 반응메카니즘을 이해시킴으로서 새로운 화합물을 합성할 수 있는 능력을 키우며 유기화합물의 구조분석 등에 실제 응용할 수 있는 능력을 키우도록 한다.

[3] Class Delivery Method

유기화학에서 가장 핵심적인 내용등을 학습시킴으로서 여러 유기 화합물의 구조를 확인하고 그 성질, 반응, 반응성, 반응메카니즘 등을 응용할 수 있는 능력을 배양시키고자 한다.

수업은 강의노트로 진행하고 이후 교재로 복습하는 형태로 진행함. 강의노트는 첫 시간에 설명 예정임.

따라서, 교재 및 강의 노트 활용한 설명 외에 학생들이 다양한 문제 풀이를 통해 스스로 학습할 수 있는 능력을 기르도록 유도한다. 또한 강의에서 배운 내용을 직접 실험을 통하여 이해하도록 한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	%	%	%	%	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
70 %	30 %	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	L.G. Wade	Publisher	자유아카데미	Textbook	유기화학 (8판)	Issued year	2022
(2)	Author	F.A. Carey,	Publisher		Textbook	유기화학	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Clayden et.al.,	Publisher	Oxford University Press	Textbook	Organic Chemistry	Issued year	2001
(2)	Author	John McMurry	Publisher	자유아카데미	Textbook	유기화학(6판)	Issued year	2005
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	복습: 유기반응: 치환반응 및 제거반응
Second week	7장: 알켄의 구조와 합성
Third week	8장: 알켄의 반응
Fourth week	중간고사 I
Fifth week	9장: 알카인
Sixth week	15장: 컨쥬게이션계 I
Seventh week	15장: 컨쥬게이션계 II
Eighth week	특강: Molecular Orbital Theory:기초
Ninth week	중간고사 II
Tenth week	16장: 방향족 화합물 I
Eleventh week	16장: 방향족 화합물 II: heteroaromatics
Twelfth week	17장: 방향족 화합물의 반응 I
Thirteenth week	17장: 방향족 화합물의 반응 II
Fourteenth week	17장: 방향족 화합물의 반응 III
Fifteenth week	특강: 유기 반응 메카니즘 I
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment	각 장 문제풀이 및 연습문제-매강의 끝난후 1주	submission date	
	purpose	강의에서 배운 것을 보충하고 실제 응용 및 이해하기 어려운 부분을 문제를 해결함으로써 유기물의 합성 및 반응성, 메카니즘 확인방법 등을 해결할 수 있는 능력을 함양토록 한다.		
	procedure & notice	각자가 문제풀이를 해결하여 Report를 제출하고 지도교수가 검토토록 한다.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	POLYMER CHEMISTRY		Course Number	BKC6021001		
Major / School Year	Dept. of Chemistry	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Chemistry	/ 그레고리 아 이작 피터슨	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[05-506:수(2B-3)] [05-525:화(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

The purpose of this class is to broadly introduce the field of synthetic polymer chemistry and to provide the knowledge necessary for work or continued study in this field. A strong focus will be given to describing polymer synthesis, properties, and applications, and the interrelationship between them. The responsible use of polymers, including topics such as plastic recycling, plastic pollution, and polymer degradation will be covered. Lastly, important current topics in polymer research will be introduced to provide a well-rounded tour of this diverse field.

[2] Course Learning Outcomes

Participants in this course should develop a good understanding of how polymers are synthesized, characterized; what polymer properties are important; and how those properties enable polymers to be useful in various applications. Participants should also develop an understanding of what happens to polymers after they have been used and how polymer chemists and all global citizens should responsibly use polymers. Participants should also develop their ability to read and communicate about primary polymer chemistry literature.

[3] Class Delivery Method

Participants will improve understand the basic concepts and principles of polymer chemistry through lectures and problem-solving exercises during the lecture. Participants will also develop application skills by applying the principles learned in class to understand a current polymer chemistry academic publication through a class project.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	10 %	10 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

Mid-term and Final Exam (60%)

Attendance (20%)

Class Project-written report and Power Point presentation (20%)

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Lodge and Hiemenz	Publisher	CRC Press	Textbook	Polymer Chemistry 3rd Edition	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture 1: course introduction Lecture 2: history of polymers
Second week	Lecture 3: molecular weight Lecture 4: step-growth polymerization, pt. 1
Third week	Lecture 5: step-growth polymerization, pt. 2 Lecture 6: chain-growth polymerization, pt. 1
Fourth week	Lecture 7: chain-growth polymerization, pt. 2 Lecture 8: controlled polymerization, pt. 1
Fifth week	Lecture 9: controlled polymerization, pt. 2 Lecture 10: stereochemistry and copolymers
Sixth week	Lecture 11: topological and supramolecular polymers Lecture 12: network polymers
Seventh week	Lecture 13: polymer solutions and mixtures Lecture 14: review for mid-term exam
Eighth week	Mid-term Exam
Ninth week	Lecture 15: amorphous polymers Lecture 16: semi-crystalline polymers
Tenth week	Lecture 17: polymer processing Lecture 18: polymer materials
Eleventh week	Lecture 19: plastic pollution Lecture 20: plastic recycling
Twelfth week	Lecture 21: degradable polymers Lecture 22: other polymer applications
Thirteenth week	Class Project: –Primary Literature Presentations –Details to be provided at a later time
Fourteenth week	Class Project: –Finish presentations Lecture 23: review for final exam
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Class Project Part 1: report	submission date	
	purpose	To improve ability to read and write about primary literature papers in the field of polymer chemistry		
	procedure & notice	A written report on a recent polymer chemistry paper. Template will be provided. Paper will be chosen by the participant from a provided list. More details will be provided at a later time.		
	references			
The second assignment	assignment	Class Project Part 2: presentation	submission date	
	purpose	To improve ability to read and present about primary literature in the field of polymer chemistry		
	procedure & notice	A Power Point presentation will be prepared and given in class. This may be a single or group project depending on the number of class participants. A template will be provided. More details will be provided at a later time. *Note: Your English speaking ability has no influence on the grade		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ADVANCED ORGANIC CHEMISTRY		Course Number	BKC6018001		
Major / School Year	Dept. of Chemistry	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Chemistry	/ 김진호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358218	A weekday / class / lecture room	[05-506:목(2B-3)] [05-507:월(1-2A)]			
Office hours			Medium of Instruction	ES		

[1] Outline / Purpose

본 수업은 유기화학 특강으로 아래와 같은 내용을 다룰 것입니다.
 카보닐 작용기가 있는 화합물들의 반응
 최근 개발된 약의 전합성전이금속 촉매 반응
 name reaction 등

<Course Description>

This course deals with the application of structure and theory to the study of organic reaction mechanisms: Stereochemical features including conformation and stereoelectronic effects; molecular orbital theory applied to pericyclic and photochemical reactions; and total synthesis of some modern organic complex molecules.

[2] Course Learning Outcomes

본수업의 목표는 학생들로 하여금 유기화학의 전체적인 흐름을 이해하고
 유기화학 관련 교과목을 통해 배운 내용을 적용시켜 다양한 약을 합성하는 방법을 이해하는데 있습니다.

This special lecture in organic chemistry course focuses on understanding of overall organic chemistry, including reactions, structures and mechanisms, and bringing an ability to design and synthesize complex organic compounds.

[3] Class Delivery Method

수업진행은 강의 노트를 통해 이루어지며, 여러가지 논문을 활용합니다.

This course will be proceeded with lecture note and papers.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	30 %	0 %	0 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	50 %	0 %	0 %	0 %	0 %	30 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	L.G.Wade	Publisher	자유아카데미	Textbook	유기화학 (8판)	Issued year	2015
(2)	Author		Publisher		Textbook	자체교재	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Smith	Publisher	자유아카데미	Textbook	유기화학(6판)	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	유기화학특강 소개 및 유기화학1,2,3 복습
Second week	20장 카복실산
Third week	20장 카복실산
Fourth week	21장 카복실산 유도체 - 9/24 휴강
Fifth week	21장 카복실산 유도체 - 10/5 휴강
Sixth week	22장 카보닐 화합물의 축합과 알파 치환반응
Seventh week	22장 카보닐 화합물의 축합과 알파 치환반응
Eighth week	중간고사
Ninth week	19장 아민
Tenth week	20장 고리화반응
Eleventh week	Protection and deprotection - 11/16 휴강
Twelfth week	Protection and deprotection - 11/19 휴강
Thirteenth week	Name reactions
Fourteenth week	Name reactions
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	각 장 문제풀이 및 연습문제-매강의 끝난후 1주	submission date	
	purpose	강의에서 배운 것을 보충하고 실제 응용 및 이해하기 어려운 부분을 문제를 해결함으로써 유기물의 합성 및 반응성, 메카니즘 확인방법 등을 해결할 수 있는 능력을 함양토록 한다.		
	procedure & notice	각자가 문제풀이를 해결하여 Report를 제출하고 지도교수가 검토토록 한다.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Nanocatalysis		Course Number	0012346001		
Major / School Year	Dept. of Chemistry	/ 4	completion division / Grade evaluation	/		
Department/Professor	Dept. of Chemistry	/ 권태현	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358233	A weekday / class / lecture room	[05-506:수(1-2A),금(1-2A)]			
Office hours	Wednesday 2:00PM ~ 3:00PM		Medium of Instruction	ES		

[1] Outline / Purpose

This is an introductory course that addresses catalytic reactions and material properties occurring at the nanometer scale. Based on an understanding of how structural and electronic properties of nanoparticle catalysts influence changes in catalytic reactivity, the course aims to examine various applications in fields such as electrochemistry, photocatalysis, and environmental and energy technologies. Through this course, students are expected to establish a foundational theoretical framework in the field of nanocatalysis and gain a comprehensive understanding of industrial applications, thereby preparing the necessary academic foundation for future research and practical applications in related areas.

Recommended Prerequisites:

- General Chemistry (II)
- Instrumental Analysis (II)
- Nanomaterial Chemistry

[2] Course Learning Outcomes

- Recognize the importance of nanocatalysts and acquire fundamental concepts of nanoscale science.
- Understand basic chemical knowledge related to nanocatalyst synthesis and grasp the structure-activity relationship of catalysts.
- Understand instrumentation for analysis and characterization of nanocatalysts, and be able to select and apply appropriate analytical methods based on given situations.
- Based on specialized knowledge acquired in the course, be able to logically present creative solutions to given problems and communicate findings effectively through presentations.

[3] Class Delivery Method

- Acquire fundamental theoretical knowledge related to nanoscale catalysts through lectures, slides, and board presentations.
- Develop professional presentation skills through presentations on recent research papers in nanocatalysis, and gain an understanding of current research trends and developments in the nanocatalysis field.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	20 %	0 %	30 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Presentation 30%

Final Exam 50%

Attendance 20%

Students who are absent for more than one-third (1/3) of the class time will receive an F grade. (As specified in university regulations.)

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handout	Issued year
(2)	Author 김병윤 외	Publisher 사이플러스	Textbook 나노소재화학		Issued year
(3)	Author 서근, 김건중	Publisher 청문각	Textbook 촉매: 기본개념, 구조, 기능		Issued year

[Reference books]

(1)	Author 오승모	Publisher 자유아카데미	Textbook 전기화학 제3판	Issued year
(2)	Author Mulmudi Hemant Kumar	Publisher ArclerPress	Textbook Electrocatalysis	Issued year

(3)	Author	차우준	Publisher	내하출판사	Textbook	촉매와 환경기술	Issued year	
(4)	Author	문상흠 외	Publisher	사이플러스	Textbook	촉매공학입문	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation Properties of Nanomaterials
Second week	Basic Concepts of Catalysis
Third week	Active Sites of Catalysts
Fourth week	Structure and Synthesis of Nanocatalysts
Fifth week	Characterization of Nanocatalysts (1)
Sixth week	Characterization of Nanocatalysts (2)
Seventh week	Nano Metal Catalysts
Eighth week	Nano Metal Oxide Catalysts
Ninth week	Nanoporous catalysts
Tenth week	Catalyst-Support Interaction
Eleventh week	Catalyst Deactivation and Regeneration
Twelfth week	Atomically Dispersed Catalysts
Thirteenth week	Student Presentation
Fourteenth week	Student Presentation
Fifteenth week	Final Exam
Sixteenth week	Buffer Session

[7] Assignments

The first assignment	assignment	Presentation	submission date	
	purpose			
	procedure & notice	Details will be announced at the OT.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Digital Fashion Design	Course Number	0008673001
Major / School Year	Dept. of Fashion Industry / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Fashion Industry / 김선희	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[05-406:수(3)(4),목(3)(4)]
Office hours	Tue 14:00~16:00, Thur 16:00~18:00	Medium of Instruction	EN

[1] Outline / Purpose

This course aims to understand the characteristics of Adobe Photoshop and Illustrator programs, which are essential tools in fashion design field. Students will cultivate professional ability to use Photoshop and Illustrator for fashion design and textile design by practicing program tools. The practice includes drawing fashion items(Flat sketches), retouching images, and making design maps. Finally students will complete their own design portfolio at the end of the semester.

[2] Course Learning Outcomes

1. To understand the characteristics of Adobe Photoshop and Illustrator.
2. To know how to use tools of Adobe Photoshop and Illustrator.
3. To draw flat sketches of fashion items with Illustrator.
4. To make design maps with Photoshop.
5. To complete the portfolio with Photoshop and Illustrator.

[3] Class Delivery Method

Lecture and practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	0 %	0 %	70 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

Every week assignment (2 point/per, late -0.5 point/per day) should be uploaded on e-Learning : 16 point

Design Inspiration Presentation (in English) 4 points

Mid term test 25 point (Flat sketches)

Portfolio 30 point, Presentation (in English) 5 point

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	An Minyoung	Publisher	Kyungchunsa	Textbook	Computer Fashion	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert Hume	Publisher	Bloomsbury	Textbook	Fashion and Textile Design with Photoshop and Illustrator	Issued year	2016
(2)	Author	Susan M. Lazear	Publisher	Prentice Hall	Textbook	Adobe Photoshop for Fashion Design	Issued year	2010
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction. The characteristics of Illustrator and Photoshop
Second week	Practice basic tools of Illustrator : Line and Text practice Assignment 1 Line and Text
Third week	Flat sketches : T-shirts Design, Graphics Assignment 2 T-shirts Design, Graphics
Fourth week	Flat sketches : Skirt Design Variations, Color & Fabric Assignment 3 Skirt Design
Fifth week	Flat sketches : Pants Assignment 4 Pants Design
Sixth week	Flat sketches : Shirts Assignment 5 Shirts Design
Seventh week	Flat sketches : Jackets, Jumpers Assignment 6 Jackets Design
Eighth week	Mid term test : Jacket Flat Sketch
Ninth week	Flat sketches : Coats, Dress, Pattern(Textile), Pattern Mapping Assignment 7 Coats, Dress, Textile Design
Tenth week	Practice basic tools of Photoshop : Select tool
Eleventh week	Design Image Map Assignment 8 Theme/Image Map
Twelfth week	Textile Pattern Making Assignment 9 Color/Textile Map
Thirteenth week	Mapping/ Portfolio Layout Assignment 10 Design Sketch Map
Fourteenth week	Final Portfolio
Fifteenth week	Final Portfolio Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Every week assignment	submission date	
	purpose	To practice tools		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The second assignment	assignment	Final portfolio	submission date	
	purpose	To make the portfolio with illustrator and Photoshop		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Digital Fashion Design	Course Number	0008673002
Major / School Year	Dept. of Fashion Industry / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Fashion Industry / 김선희	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[05-406:수(6)(7),목(6)(7)]
Office hours	Tue 14:00~16:00, Thur 16:00~18:00	Medium of Instruction	EN

[1] Outline / Purpose

This course aims to understand the characteristics of Adobe Photoshop and Illustrator programs, which are essential tools in fashion design field. Students will cultivate professional ability to use Photoshop and Illustrator for fashion design and textile design by practicing program tools. The practice includes drawing fashion items(Flat sketches), retouching images, and making design maps. Finally students will complete their own design portfolio at the end of the semester.

[2] Course Learning Outcomes

1. To understand the characteristics of Adobe Photoshop and Illustrator.
2. To know how to use tools of Adobe Photoshop and Illustrator.
3. To draw flat sketches of fashion items with Illustrator.
4. To make design maps with Photoshop.
5. To complete the portfolio with Photoshop and Illustrator.

[3] Class Delivery Method

Lecture and practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	0 %	0 %	70 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

Every week assignment (2 point/per, late -0.5 point/per day) should be uploaded on e-Learning : 16 point

Design Inspiration Presentation (in English) 4 points

Mid term test 25 point (Flat sketches)

Portfolio 30 point, Presentation (in English) 5 point

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	An Minyoung	Publisher	Kyungchunsa	Textbook	Computer Fashion	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert Hume	Publisher	Bloomsbury	Textbook	Fashion and Textile Design with Photoshop and Illustrator	Issued year	2016
(2)	Author	Susan M. Lazear	Publisher	Prentice Hall	Textbook	Adobe Photoshop for Fashion Design	Issued year	2010
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction. The characteristics of Illustrator and Photoshop
Second week	Practice basic tools of Illustrator : Line and Text practice Assignment 1 Line and Text
Third week	Flat sketches : T-shirts Design, Graphics Assignment 2 T-shirts Design, Graphics
Fourth week	Flat sketches : Skirt Design Variations, Color & Fabric Assignment 3 Skirt Design
Fifth week	Flat sketches : Pants Assignment 4 Pants Design
Sixth week	Flat sketches : Shirts Assignment 5 Shirts Design
Seventh week	Flat sketches : Jackets, Jumpers Assignment 6 Jackets Design
Eighth week	Mid term test : Jacket Flat Sketch
Ninth week	Flat sketches : Coats, Dress, Pattern(Textile), Pattern Mapping Assignment 7 Coats, Dress, Textile Design
Tenth week	Practice basic tools of Photoshop : Select tool
Eleventh week	Design Image Map Assignment 8 Theme/Image Map
Twelfth week	Textile Pattern Making Assignment 9 Color/Textile Map
Thirteenth week	3D Mapping/ Portfolio Layout Assignment 10 Design Sketch Map
Fourteenth week	Final Portfolio Layout
Fifteenth week	Final Portfolio Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Every week assignment	submission date	
	purpose	To practice tools		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The second assignment	assignment	Final portfolio	submission date	
	purpose	To make the portfolio with illustrator and Photoshop		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Global Public Relations		Course Number	0008695001		
Major / School Year	Dept. of Media and Communication	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Media and Communication	/ 김지선	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[13-102:화(7-8A),목(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course addresses the key issues that public relations (PR) professionals must keep in mind to create and manage effective and socially responsible communication programs in an international context. Topics and issues discussed include theoretical foundations of intercultural communication, cultural variables, social responsibility, ethics, global media differences, PR management and strategy, effects of technology. Country or regionally specific contexts and comparative PR will also be addressed.

[2] Course Learning Outcomes

- Understand the influences of key international factors and variables on the practice of PR, from research and strategy through implementation and evaluation.
- Make good strategic and ethical decisions regarding issues of global PR.
- Gain competence in planning global PR campaigns and programs.
- Develop a better global perspective, positively affecting their personal worldview and professional practice.

[3] Class Delivery Method

Various methods will be employed in this course: lecture, discussion, and presentation. Interactive classroom discussions will enhance learning, but are dependent on student participation.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	0 %	0 %	20 %	10 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	40 %	0 %	60 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

There is no required textbook in this course. Instead all required readings will be posted on the course website.

[6] Weekly lesson plans

First week	Intro to Course *The instructor reserves the right to change the topics, assignments, grading system, and schedule if necessary. All changes will be announced in class.
Second week	Understanding Global PR and Diverse Publics
Third week	Theories of Intercultural Communication, Values and Cultures
Fourth week	Dimensions of Culture
Fifth week	Cultural Differences & Communication
Sixth week	Global PR Campaign Examples
Seventh week	Campaign Program Planning
Eighth week	Midterm Exam
Ninth week	Communication Strategies
Tenth week	Culture & Creative Strategies
Eleventh week	Culture & Social Media
Twelfth week	Global PR Campaign Examples
Thirteenth week	Global PR Campaign Examples
Fourteenth week	Final Team Project Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Human Information Behavior		Course Number	0010848001		
Major / School Year	Dept. of Library and Information Science	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Library and Information Science	/ 왕린	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[13-102:월(7-8A)] [13-204:목(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course introduces how people recognize information needs and search for, evaluate, use, create, and share information. Students will learn major concepts, theories, and models of information behavior. The course also examines how personal, social, cultural, and technological factors influence information use. Its main purpose is to help students understand users and apply this knowledge to the design and improvement of libraries, information services, and digital systems.

[2] Course Learning Outcomes

By the end of the course, students will be able to explain key concepts and major theories of information behavior. They will compare different information behavior models and apply them to real-life cases. Students will also analyze how information behavior varies across users, tasks, and contexts. In addition, they will develop basic skills in interpreting user research and suggesting improvements for user-centered information services and systems.

[3] Class Delivery Method

Lectures,
assignments,
class discussion
projects.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Lisa M. Given; Donald O. Case; Rebekah Willson	Publisher	Emerald Publishing Limited	Textbook	Looking for Information: Examining Research on How People Engage With Information	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Information Behavior: An Introduction
Second week	Information Behavior: An Introduction
Third week	The Evolution of Information Behavior Research
Fourth week	The Evolution of Information Behavior Research
Fifth week	The Complex Nature of Information Behavior
Sixth week	The Complex Nature of Information Behavior
Seventh week	Project 1
Eighth week	Midterm Exam
Ninth week	Metatheories, Theories, and Models
Tenth week	Metatheories, Theories, and Models
Eleventh week	Research Design, Methodologies, and Methods
Twelfth week	Research Design, Methodologies, and Methods
Thirteenth week	Reviewing, Critiquing, Concluding, and Futuring
Fourteenth week	Project 2
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Digital Libraries	Course Number	0010849001
Major / School Year	Dept. of Library and Information Science / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Library and Information Science / 왕린	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [13-207:화(2B-3),목(2B-3)]		
Office hours	Medium of Instruction ES		

[1] Outline / Purpose

This course will introduce concepts, components, technologies and trends of digital libraries. The course will cover the following topics in roughly this order: What is a digital library; The Internet, libraries and publishers; People, organizations and change; Economic and legal issues; Access management and security; User interface and usability; Information retrieval and metadata; Distributed information discovery; Architecture and systems of digital libraries; Repositories and archives; Future of digital libraries.

[2] Course Learning Outcomes

This course will introduce concepts, components, technologies and trends of digital libraries.

[3] Class Delivery Method

Offline

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course introduction What is a digital library? Basic concepts and terminology
Second week	Libraries and information visualization Virtual reality: Out of this world
Third week	The Internet, libraries and publishers Economic and legal issues Maximizing assets and assess through digital publishing
Fourth week	Access management and security Economic and legal issues
Fifth week	User interface and usability
Sixth week	Project I
Seventh week	Information retrieval and metadata
Eighth week	Midterm exam
Ninth week	Information retrieval and metadata Text
Tenth week	Distributed information discovery
Eleventh week	Architecture and systems of digital libraries
Twelfth week	Repositories and archives Digital exhibits to digital humanities Digital Repositories
Thirteenth week	Project II
Fourteenth week	Future of digital libraries Bots and the libraries
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Global communication	Course Number	0010859001
Major / School Year	Dept. of Public Administration / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [13-208:화(5B-6),금(5B-6)]		
Office hours	M, T, Th, F 1:30-3:00	Medium of Instruction	EN

[1] Outline / Purpose

The purpose of this class is to prepare students for future careers that operate in a multilingual and multicultural environment and to prepare for studying public administration in English-language classes at a college level.

[2] Course Learning Outcomes

Successful completion of this course should leave the student with a deepened understanding of basic public administration concepts in a global context, improved global communication skills, improved English skills, and the ability to participate more fully in an English-language classroom. This will include improved listening, reading, writing, discussion, and presentation skills.

[3] Class Delivery Method

The class begins with general communication practice in a public administration context and moves gradually to present public administration content in English. The emphasis of the course is on skills and practice. A key component of the course is the creation and implementation of personal goals and a personal action plan for improving English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	70 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	0 %	0 %	0 %	0 %	15 %	5 %

[4] Grading Policies

There will be a midterm with a written and an oral component, and a written and oral final.

Grading: 5% Homework/quizzes 5% Participation 10% Paper
20% Attendance 15% Midterm 15% Final 15% Oral Midterm 15% Interview

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Online Text, Notes	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction Presenting in English
Second week	Speaking/Listening How to Attract Audience Attention
Third week	Reading English Reading
Fourth week	Writing English Writing
Fifth week	Career 개천절
Sixth week	추석 Discussion
Seventh week	Wilson Study of Administration
Eighth week	Oral Midterms
Ninth week	Oral Midterm Written Midterm
Tenth week	White Introduction to the Study of Public Administration
Eleventh week	Weber Bureaucracy
Twelfth week	Maslow A Theory of Human Motivation
Thirteenth week	Katz and Kahn Organizations and the Systems Concept
Fourteenth week	Review
Fifteenth week	Written Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	THEORIES OF LEADERSHIP		Course Number	CFB6060001	
Major / School Year	Dept. of Public Administration	/ 2	completion division / Grade evaluation	/	
Department/Professor	Dept. of Public Administration	/	Grades/Lecture/ Practice	3	/ 3 / 0
Phone Number	0328358336	A weekday / class / lecture room	[13-101:화(4-5A),수(4-5A)]		
Office hours	M, T, Th, F 13:30-15:00		Medium of Instruction	EN	

[1] Outline / Purpose

The purpose of this class is to provide students with an introduction to leadership in the English language and how to apply leadership in practical applications.

[2] Course Learning Outcomes

Successful completion of this course should leave the student with a basic understanding of the four major models of leadership and thus be able to apply their own understanding of leadership theory to practical cases and also improved English communication skills from practice.

[3] Class Delivery Method

The class overviews the major schools of leadership, illustrating concepts through practical exercise, moves on to consider some special situations and ends up with practical application of the course concepts.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
5 %	65 %	0 %	25 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	90 %	0 %	0 %	5 %	0 %	0 %	5 %

[4] Grading Policies

Grading: 10% Discussion, Homework 10% Workbook

20% Attendance 30% Midterm 30% Final (15% Leadership Analysis)

Attendance is an important part of the course. If you are unable to attend the class, contact the professor as far in advance as possible. The discussion grade includes participation and a good-faith effort should be made to participate in class. Student questions are encouraged, especially on leadership and general English topics. Attendance for online contents is checked based on whether and when the contents are accessed. Any assignments are due at the start of class. If class is cancelled for some reason, continue to do your work as though class were being held as usual, but turn it in at the next class. The workbook will be collected and checked mid-term and at the end of the semester. There will be a Midterm consisting of an objective portion and a practical/essay component. There will be a Final consisting of a written portion and a leadership evaluation component.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Online Book and Notes	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Lussier & Achua	Publisher	Thomson/ South-Western	Textbook	Leadership	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Leadership Overview
Second week	Followers
Third week	Leadership Motivation
Fourth week	Leadership Traits 9月24-26日 추석
Fifth week	Leadership Behavior 10月5日개천절
Sixth week	Contingency Leadership 10月9日한글날
Seventh week	Midterm Review Midterm
Eighth week	Team Leadership
Ninth week	Self-Management
Tenth week	Charismatic Leadership US Midterm Elections
Eleventh week	Transformational Leadership
Twelfth week	Strategic Leadership
Thirteenth week	Exercise Practice Negotiation
Fourteenth week	Strategic Negotiation Exercise Final Review
Fifteenth week	Leader Evaluations Written Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	URBAN ADMINISTRATION		Course Number	CFB6027001		
Major / School Year	Dept. of Public Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Public Administration	/ 타오	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358337	A weekday / class / lecture room	[13-101:월(5B-6),목(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is designed for third and fourth year students interested in how city governments are managed. If you are thinking about working in local government (either at the metropolitan or provincial level), then this course will give you a good overview of important differences between theory and the way local government functions in Korea.

[2] Course Learning Outcomes

Students should achieve three objectives in this course:

- ① learn about the historical and legal context of local governments, both in Korea and around the world;
- ② learn how local governments operate, both within the unitary context of South Korea, and in other country contexts; and,
- ③ understand the key points where theory and practice do not intersect.

[3] Class Delivery Method

Students will be graded on three criteria:

- ① attendance and participation (20%);
- ② interviews and presentations (25%); and
- ③ mid-term and final exam (60%).

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	30 %	20 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
15 %	0 %	70 %	0 %	15 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jong Youl Lee et. al.	Publisher	Daeyoung Munhwasa	Textbook	Urban Administration : Issues and Practices	Issued year	2012
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	이종열 외	Publisher	대영문화사	Textbook	도시행정론	Issued year	2005
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

There will be other shorter readings posted on the eLearning site. Please check to make sure you are keeping up.

[6] Weekly lesson plans

First week	Introduction: What is Urban Administration? Tell me what you think it is.
Second week	What is Urban? Lee, Tao, and Anderson, Ch.1
Third week	What is Urbanization? Lee, Tao, and Anderson, Ch.2
Fourth week	How are Cities Governed? Structure of Government Lee, Tao, and Anderson, Ch. 3 CHUSEOK (some classes may be online)
Fifth week	City Services Lee, Tao and Anderson, Ch. 4
Sixth week	Intergovernmental Administration Lee, Tao and Anderson, Ch. 5
Seventh week	Urban Finances: How We Pay for Stuff Lee, Tao, and Anderson, Ch. 6
Eighth week	Midterm Exam
Ninth week	Urban Planning Lee, Tao and Anderson, Ch. 7
Tenth week	Urban Design Lee, Tao and Anderson, Ch. 8
Eleventh week	Economic Development Ch. 9
Twelfth week	Urban Marketing and Strategy Ch. 10
Thirteenth week	The Future of Urban Administration Ch. 11
Fourteenth week	Student Presentations
Fifteenth week	Final Exam
Sixteenth week	Make up class if necessary.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	LOCAL GOVERNMENT ADMINISTRATION		Course Number	CFB6015001		
Major / School Year	Dept. of Public Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Public Administration	/ 타오	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[13-101:화(7-8A),목(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Overview--This course introduces students to the concept of local governance. Students will become familiar with how this term is used in public administration at the local level of government, and how this differs from traditional conceptions of government. Objectives: 1) Students will understand the skills necessary to be practitioners of "good governance"; 2) Students will become familiar with the theories that ground the study of local governance in economics, political science, public administration, and sociology; and, students will be presented with firsthand accounts of local administrative practices here in Incheon, South Korea.

[2] Course Learning Outcomes

Students will demonstrate mastery of these objectives through their performance in three areas: Class participation--20%; Tests (midterm and final exams)--60%; and local governance issue identification and presentation (20%). There will also be (at least) one field trip to visit local governments here in Incheon Metropolitan City.

[3] Class Delivery Method

Since the class is conducted entirely in English, class attendance and participation is mandatory. Students who miss class on a regular basis will not be allowed to sit for the final exam without special consent of the instructor. Students are expected to submit assignments on time.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	80 %	0 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

All readings will be provided to students by the professor through the e-learning website.

[6] Weekly lesson plans

First week	Introductions--What is Local Governance?
Second week	Roots in Urban Administration Theory (Sharp 1990, Ch. 1)
Third week	Providing Urban Services: The Theory and the Practice (Sharp 1990, ch.2)
Fourth week	Politics and Service Provision (Sharp 1990, ch. 3). CHUSEOK Week, so some classes may be online. Please listen for details.
Fifth week	Governance and Governing (Bovaird and Loffler)
Sixth week	The Case of Seoul--Special City, or not so Special? (JY Lee)
Seventh week	Economic Theory and Urban Governance (Peterson Chs 1-2).
Eighth week	Midterm Exam (in class)
Ninth week	Cities and Urban Regions--Challenges to Governing over multiple jurisdictions.(Mitchell and Weaver)
Tenth week	Practice in LDCs--Problems with Mobility, Governance and Pseudourbanization (Kironde)
Eleventh week	Collective Action Problems and Solutions--Ostrom
Twelfth week	Possible field trip (this may change, so please pay attention)
Thirteenth week	Responding to Public Demands--Cities as Democratic Units (Franklin and Ebdon)
Fourteenth week	Presentations
Fifteenth week	Final Exam (in class)
Sixteenth week	Make up classes if necessary.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Global Governance		Course Number	0009405001		
Major / School Year	Dept. of Public Administration	/ 4	completion division / Grade evaluation	/		
Department/Professor	Dept. of Public Administration	/	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358336	A weekday / class / lecture room	[13-101:목(4-5A),금(4-5A)]			
Office hours	M, T, Th, F 13:30-15:00		Medium of Instruction	EN		

[1] Outline / Purpose

The purpose of this class is to provide an introduction to the theory and practice of global governance and international administration in the English language, with an emphasis on practical applications.

[2] Course Learning Outcomes

Successful completion of this course should leave the student with a basic understanding of the major features of international administration, an ability to apply them in an analytical way to evaluating novel cases, and improved English communication skills. The class will prepare students to consider the governance of international organizations and to participate more fully as domestic and world citizens as well as to understand their options related to dealing with such systems.

[3] Class Delivery Method

The class overviews the major aspects of global governance and then investigates the features in the context of a number of issue areas with application of course concepts. The course usually proceeds in a seminar style. Materials are provided in multiple formats to accommodate different learning styles. Course video will be provided along with online text, audio text, and lecture notes. There will be discussions following review of the material. There will be questions for discussion.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
3 %	41 %	38 %	12 %	0 %	0 %	6 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	5 %	0 %	0 %	0 %	0 %	5 %	10 %

[4] Grading Policies

Grading: 10% Discussion 10% Project

20% Attendance 20% Midterm 20% Final 20% Individual Interview

Discussion is checked through appropriate questions and discussion, both in class and online. Attendance is an important part of the course. You should contact the professor as far in advance as possible, preferably by email. The grade includes participation, and a good-faith effort should be made to participate in class, including asking questions and participating in online forums. Extra time will be devoted to addressing student needs and concerns. Attendance for online contents, if necessary, is checked based on whether and when the contents are accessed. There will be a written midterm, a written final, an individual 1:1 interview examination, a presented course project (based on viewing a film, reading a graphic novel, or playing a game, personal experience, research, etc.), and ongoing course discussions.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	Provided	Textbook	Online Text	Issued year	
(2)	Author		Publisher	Provided	Textbook	Online Notes	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Karns & Mingst	Publisher	Rienner	Textbook	International Organizations	Issued year	
(2)	Author	Lee et al	Publisher	Daeyoung Munhwassuh	Textbook	International Administration	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Challenges of Global Governance
Second week	The UN
Third week	Regional Organizations
Fourth week	Non-State Actors
Fifth week	Health 개천절 (holiday)
Sixth week	한글날 Health (holiday)
Seventh week	Review
Eighth week	Midterm Test
Ninth week	Peace and Security
Tenth week	Human Rights
Eleventh week	Environment GCF
Twelfth week	Economy and Development
Thirteenth week	Trade
Fourteenth week	Monetary Governance Review
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment	Project	submission date	
	purpose	Explore Individual Application of Course Concepts		
	procedure & notice	The presented course project (based on viewing a film, reading a graphic novel, or playing a game, personal experience, research, etc.) is flexible in topic and schedule but must be approved in advance by the instructor.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	GOVERNMENT REFORM		Course Number	CFB6068001			
Major / School Year	Dept. of Public Administration	/ 4	completion division / Grade evaluation	/			
Department/Professor	Dept. of Public Administration	/	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[13-101:수(7-8A),목(7-8A)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	KOREAN POLITICS		Course Number	CFC6050001		
Major / School Year	Dept. of Political Science & Int'l Relations / 2		completion division / Grade evaluation	/		
Department/Professor	Dept. of Political Science & Int'l Relations / 우병득		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[13-104:수(7-8A),금(7-8A)]			
Office hours	1) Before and After the Course, 2) By Appointment via Email		Medium of Instruction	EN		

[1] Outline / Purpose

This course aims to understand Korean politics such as the political and economic development of South Korea, industrialization, democratization, and interest group Politics. At the same time, we will explore various issues in contemporary South Korea including migration, immigrants, gender and generation gap, and inequality.

The contents of this course will be flexible. The updated version of the syllabus will be announced in the first week of this semester.

[2] Course Learning Outcomes

At the end of the semester, you will

1. Understand Korean Politics
2. Be able to explain crucial themes related to Korean Politics
3. Establish your thoughts on contentious issues in contemporary South Korea.

[3] Class Delivery Method

Lecture, Presentation, and Discussion among Students and Instructor.
Reading Materials and lecture slides will be provided.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

1. Attendance (20%)

2. Team Presentation (30%): You will select a topic assigned to one of the weeks and will present about the topic. The presentation will be around 20 minutes including Q&A. In the first week, your teammates will be determined.

3. Discussion: (20%): Discussion is one of the important evaluation criteria in this course. Students will be grouped into several small groups and discuss what they learned in class with the instructor. After the discussion, each small group will have three minutes to share what they discussed. Small group members will be determined in each class.

4. Final Paper (30%): Our class does not have exam but final paper. Basically, students will be required to write about certain themes they learned during the semester. The themes and format will be announced before the final exam week.

It should be noted that this course syllabus might change. The updated version of the syllabus will be announced in the first week of this semester.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Overview of Political and Economic Development of South Korea
Third week	The Korean War and Political Ideology
Fourth week	Industrialization, Economic Development, and Developmental State
Fifth week	Democracy, Democratization of South Korea, and Civil Society
Sixth week	Democratic Consolidation of South Korea
Seventh week	Electoral System and Korean Party Politics
Eighth week	Mid-Term Exam Week
Ninth week	Presidency and Legislature
Tenth week	Regional Politics
Eleventh week	Interest Group Politics
Twelfth week	Issues in Contemporary South Korea (1): Migration and Immigrants, and Contentious Politics
Thirteenth week	Issues in Contemporary South Korea (2): Gender and Generation Gap, and Party Polarization
Fourteenth week	Issues in Contemporary South Korea (3): Inequality and Deliberative Democracy
Fifteenth week	Final Exam Week
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Basic Economic Statistics		Course Number	0010872001		
Major / School Year	Department of Economics / 2		completion division /Grade evaluation	/		
Department/Professor	Department of Economics / 김선진		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[14-312:화(8B-9),목(8B-9)]			
Office hours	WED 15:00~16:00		Medium of Instruction	EN		

[1] Outline / Purpose

This course covers the process of deriving statistical estimation results as a methodology of economic reasoning. The purpose of this course is for students to acquire statistical knowledge that can be utilized in economic research and business practices, the basic ability to find answers directly to economic questions and doubts, and the statistical knowledge necessary for taking advanced courses related to empirical economics.

[2] Course Learning Outcomes

This course aims to provide basic knowledge of probability and statistics and to introduce the basics of econometric methodology widely used in economics.

[3] Class Delivery Method

The course is conducted using lecture materials primarily composed of slides.

The lecture materials are developed based on the main textbook selected by the professor, and additional materials are included to support students' understanding.

During the semester, a team project will be conducted in which students derive economic implications.

To improve student achievement, a simple quiz can be taken at the beginning of each class. (Exercise Problems)

Regarding the course content, Excel and simple statistical software will be used.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

*Exams:

-Mid-term (20%)

-Final (25%)

-Quiz (Exercise Problems, 5%)

-Participation (10%)

*Assignment

-Team project (20%)

*Attendance (20%)

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	David P. Doane and Lori E. Seward	Publisher	McGraw Hill Education	Textbook	Applied Statistics in Business and Economics, 7/E (7th edition)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction of the Course Overview of Statistics
Second week	Data Collection Describing Data Visually
Third week	Descriptive Statistics
Fourth week	Probability
Fifth week	Discrete Probability Distributions
Sixth week	Continuous Probability Distributions
Seventh week	Sampling Distributions and Estimation (1)
Eighth week	Mid-term Exam
Ninth week	Sampling Distributions and Estimation (2)
Tenth week	One Sample Hypothesis Tests (1)
Eleventh week	One Sample Hypothesis Tests (2)
Twelfth week	Simple Regression (1)
Thirteenth week	Simple Regression (2)
Fourteenth week	Team Project Presentations
Fifteenth week	Final Exam
Sixteenth week	Make-up Class Week

[7] Assignments

The first assignment	assignment	Team project	submission date	
	purpose	Derive economic implications from real-world data by applying the knowledge gained in class		
	procedure & notice	Students form teams of 3 to 4 members, select a topic related to economics, analyze data, and draw conclusions.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	PRINCIPLES OF ECONOMICS(2)	Course Number	KB01002005
Major / School Year	School of Global Trade & Service / 1	completion division / Grade evaluation	/
Department/Professor	School of Global Trade & Service / 이종화	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [14-114:수(1-2A)] [ZZ-200:목(1-2A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course introduces the fundamental concepts and theories of macroeconomics, covering topics such as unemployment, inflation, economic growth, and business cycles. It focuses on the use of analytical tools such as the Aggregate Demand–Aggregate Supply (AD–AS) model and the IS–LM model to understand macroeconomic issues and evaluate the effects and limitations of economic policies.

This is a Hybrid class. Offline lectures will be used to go over the material and Q&A sessions. Online will consist of video lectures and possibly some tasks. Generally, Offline will be on Wed and online will be on Th but could vary. Will be announced in advance.

[2] Course Learning Outcomes

Understand key macroeconomic variables (GDP, price level, unemployment, interest rate).

Build and analyze core macroeconomic models (AD–AS and IS–LM).

Develop the ability to evaluate fiscal and monetary policy effects using theoretical and graphical tools.

Apply macroeconomic concepts to current economic issues.

[3] Class Delivery Method

Lecture-based instruction: Core concepts and theories will be explained using PPT and board work.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Mankiw	Publisher		Textbook	Principles of Economics	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Overview, micro vs. macro, 10 principles of economics (Ch.1–2)
Second week	GDP, expenditure/income approaches, real vs. nominal GDP (Ch.23)
Third week	CPI, GDP deflator, inflation calculation (Ch.24)
Fourth week	Productivity determinants, growth models (Ch.25)
Fifth week	Financial markets, loanable funds, government budget (Ch.26)
Sixth week	Types of unemployment, natural rate, minimum wage (Ch.28)
Seventh week	Money definition, liquidity, central bank, money supply (Ch.29)
Eighth week	Midterm
Ninth week	Classical dichotomy, quantity theory of money (Ch.30) (Fully Online)
Tenth week	Net exports, real exchange rate, capital flows (Ch.31)
Eleventh week	Deriving AD, link to IS–LM, short– vs. long–run (Ch.33)
Twelfth week	AS curve, output and price determination (Ch.33)
Thirteenth week	Deriving the IS curve, fiscal policy effects (supplementary)
Fourteenth week	Money market, LM curve, monetary/fiscal policy effects
Fifteenth week	Final
Sixteenth week	Makeup

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	PRINCIPLES OF ECONOMICS(2)	Course Number	KB01002006
Major / School Year	School of Global Trade & Service / 1	completion division / Grade evaluation	/
Department/Professor	School of Global Trade & Service / 이종화	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-114:수(5B-6)] [14-115:목(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course introduces the fundamental concepts and theories of macroeconomics, covering topics such as unemployment, inflation, economic growth, and business cycles. It focuses on the use of analytical tools such as the Aggregate Demand–Aggregate Supply (AD–AS) model and the IS–LM model to understand macroeconomic issues and evaluate the effects and limitations of economic policies.

[2] Course Learning Outcomes

Understand key macroeconomic variables (GDP, price level, unemployment, interest rate).

Build and analyze core macroeconomic models (AD–AS and IS–LM).

Develop the ability to evaluate fiscal and monetary policy effects using theoretical and graphical tools.

Apply macroeconomic concepts to current economic issues.

[3] Class Delivery Method

Lecture-based instruction: Core concepts and theories will be explained using PPT and board work.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

③ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Mankiw	Publisher		Textbook	Principles of Economics	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Overview, micro vs. macro, 10 principles of economics (Ch.1–2)
Second week	GDP, expenditure/income approaches, real vs. nominal GDP (Ch.23)
Third week	CPI, GDP deflator, inflation calculation (Ch.24)
Fourth week	Productivity determinants, growth models (Ch.25)
Fifth week	Financial markets, loanable funds, government budget (Ch.26)
Sixth week	Types of unemployment, natural rate, minimum wage (Ch.28)
Seventh week	Money definition, liquidity, central bank, money supply (Ch.29)
Eighth week	Midterm
Ninth week	Classical dichotomy, quantity theory of money (Ch.30)
Tenth week	Net exports, real exchange rate, capital flows (Ch.31)
Eleventh week	Deriving AD, link to IS–LM, short– vs. long–run (Ch.33)
Twelfth week	AS curve, output and price determination (Ch.33)
Thirteenth week	Deriving the IS curve, fiscal policy effects (supplementary)
Fourteenth week	Money market, LM curve, monetary/fiscal policy effects
Fifteenth week	Final
Sixteenth week	Makeup

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERNATIONAL TRADE LAW		Course Number	KBB6035003		
Major / School Year	School of Global Trade & Service	/ 2	completion division /Grade evaluation	/		
Department/Professor	School of Global Trade & Service	/	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[14-115:수(5B-6)(7-8A)]			
Office hours	By Appointment		Medium of Instruction	EN		

[1] Outline / Purpose

1. Overview : We analyze a variety of WTO Agreements with relevant case studies.
2. Aim: The aim is to help students to understand the basic international trade regulations and to apply them to the rapidly changing environment of international trade with confidence.

[2] Course Learning Outcomes

- o Understanding the international trade environment through numerous case studies.
- o Being able to apply the international trade policies and rules to the reality where you will encounter a wide variety of trade issues..
- o Improving the skill to express their views in a compelling manner.

[3] Class Delivery Method

I, the recipient of Best Teaching Award and Best Research Award, would like to teach this class by using the following methods:

- o Teaching and discussing the international trade laws
- o Dispute case studies
- o Team presentation

* It is noted that the team members will be selected during the second week.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	40 %	0 %	0 %	10 %	10 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
60 %	0 %	0 %	0 %	20 %	0 %	20 %	0 %

[4] Grading Policies

1. Class participation: 20% (class attendance & participation in discussions)
2. Two team presentations: 50% (Each presentation carries 25%)
3. Final exam: 30%

* No Mid-term exam

Note: All activities will be conducted in English.

a) Percentage of grade evaluation

Exam	Attendance	Assignment
30 %	20 %	50 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	World Trade Organization	Publisher	World Trade Organization	Textbook	WTO Agreements (a package available at the copy center (CC) of Building No.12)	Issued year	2026
(2)	Author	World Trade Organization	Publisher	World Trade Organization	Textbook	WTO Dispute Settlement: One-Page Case Summaries 1995-2022 (available at CC)	Issued year	2023
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Peter Van den Bossche, et al	Publisher	Cambridge University Press	Textbook	Law and Policy of the World Trade Organization (5th edition)	Issued year	2022
(2)	Author	Petros C. Mavroidis	Publisher	MIT Press	Textbook	The Regulation of International Trade , Vol 1, 2 & 3 (2015, 2016 & 2020)	Issued year	2020
(3)	Author	Peter Van den Bossche, et al	Publisher	Cambridge University Press	Textbook	Essentials of WTO Law (2nd edition)	Issued year	2022
(4)	Author	Jae Sundaram	Publisher	Routledge	Textbook	WTO Law and Policy	Issued year	2022
(5)	Author	Michael Trebilcock, et. al	Publisher	Edward Elgar	Textbook	Advanced Introduction to International Trade Law (3rd edition)	Issued year	2025

[Other books]

Now: Textbooks could be available at a copy center.

[6] Weekly lesson plans

First week	1. WTO Agreements: Introduction 2. WTO Dispute Settlement Rules (DSU)
Second week	1. Forming Presentation Teams 2. General Agreement on Tariffs and Trade (GATT) 1
Third week	GATT 2
Fourth week	Anti-Dumping Agreement 1
Fifth week	Anti-Dumping Agreement 2
Sixth week	Agreement on Subsidies and Countervailing Measures (ASCM) 1
Seventh week	ASCM 2 Agreement on Safeguards
Eighth week	SPS Agreement
Ninth week	TBT Agreement
Tenth week	The 1st Team Presentation – WTO Case Study
Eleventh week	General Agreement on Trade in Services (GATS) 1
Twelfth week	GATS 2 TRIPS Agreement 1
Thirteenth week	The 2nd Team Presentation – WTO Case Study
Fourteenth week	TRIPS 2 New Trade Issues FTA
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	The 1st team presentation	submission date	2026-11-04 Wed
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	The 2nd team presentation	submission date	2026-11-25 Wed
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Statistics	Course Number	0001254003
Major / School Year	School of Global Trade & Service / 2	completion division / Grade evaluation	/
Department/Professor	School of Global Trade & Service / 이종화	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [14-209:목(2B-3),금(7-8A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course introduces fundamental concepts and methods in statistics and develops practical data analysis skills using Excel. Students will learn descriptive statistics, probability, sampling, estimation, hypothesis testing, correlation, and regression analysis, with a focus on real-world applications in the era of the Fourth Industrial Revolution.

This is a Hybrid class. Offline lectures will be used to go over the material and Q&A sessions. Online will consist of video lectures and Excel tasks that I strongly recommend you follow and repeat.

[2] Course Learning Outcomes

Understand basic statistical concepts and terminology.

Perform data processing and basic statistical analysis using Excel.

Apply probability and sampling theory to estimation and hypothesis testing.

Build and interpret statistical models such as regression analysis.

[3] Class Delivery Method

Lecture + hands-on lab: Concept explanations followed by Excel-based practice.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Keller	Publisher	Cengage	Textbook	Statistics for Management and Economics	Issued year	2023
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Definition and role of statistics, data types, Excel setup (Ch.1)
Second week	Frequency tables, histograms, mean, median, mode (Ch.2)
Third week	Variance, standard deviation, quartiles, relative position (Ch.3)
Fourth week	Probability rules, conditional probability, independence (Ch.4)
Fifth week	Discrete (binomial) and continuous (normal) distributions (Ch.5)
Sixth week	Sampling methods, distribution of sample means, CLT (Ch.6)
Seventh week	Point and interval estimation, confidence level interpretation (Ch.7)
Eighth week	Midterm
Ninth week	Setting hypotheses, significance levels, mean/proportion tests (Ch.8)
Tenth week	Independent-sample t-test, paired-sample t-test (Ch.9)
Eleventh week	One-way ANOVA, multiple comparisons (Ch.10)
Twelfth week	Chi-square tests: goodness-of-fit, independence (Ch.11)
Thirteenth week	Correlation coefficient, simple regression modeling (Ch.12)
Fourteenth week	Multiple regression, variable selection, multicollinearity (Ch.13)
Fifteenth week	Final
Sixteenth week	Make-up

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Tourism	Course Number	0010470001
Major / School Year	School of Global Trade & Service / 2	completion division / Grade evaluation	/
Department/Professor	School of Global Trade & Service / 정진영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[14-114:화(5B-6),목(5B-6)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

This course provides a basic understanding of tourism from the tourism system perspective. The topics include the conceptual and technical definitions of tourism and the economic, social-cultural, and environmental impacts of tourism on a destination.

[2] Course Learning Outcomes

Each student will be able to:

- 1) understand tourism definitions and a tourism system
- 2) understand the concept of destination and tourism impacts
- 3) understand business components of the tourism sector
- 4) understand tourism demand

[3] Class Delivery Method

Lecture(100% English); In-class discussion(100% English); Group project(100% English)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	TBD	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

- Tourism: Principles and Practice, John Fletcher et al (2018)
- Essentials of Tourism, Chris Cooper (2021)
- Extra readings

[6] Weekly lesson plans

First week	Course overview (syllabus) Introduction to tourism – Tourism definitions
Second week	– Conceptual and operational frameworks
Third week	Tourist – Tourism demand
Fourth week	– Tourist behavior
Fifth week	Tourism destination – Destinations
Sixth week	– Economic impact – Environmental impact
Seventh week	– Socio-cultural impact
Eighth week	Mid-term
Ninth week	– Sustainable tourism
Tenth week	– Tourism development planning – Impact of negative events
Eleventh week	Tourism sector – Attractions
Twelfth week	– Accommodation – Events management
Thirteenth week	– Intermediaries – Transportation
Fourteenth week	– Public sector and policy
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	International Logistics Management	Course Number	0001267001
Major / School Year	School of Global Trade & Service / 3	completion division / Grade evaluation	/
Department/Professor	School of Global Trade & Service / 안영효	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[14-105:월(2B-3),목(5B-6)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

International Logistics Management introduces the fundamental concepts, systems, procedures, and managerial issues associated with the movement of goods across national borders. The course examines international logistics as an integrated process involving international trade transactions, transportation, documentation, insurance, customs clearance, security, packaging, and supply chain coordination.

The course covers international supply chain management, international logistics infrastructure, international sales contracts, Incoterms, international payment methods, commercial documents, cargo insurance, ocean transportation, air transportation, land and multimodal transportation, export packaging, logistics security, and customs clearance.

The purpose of the course is to help students understand how international trade and logistics activities are connected throughout the entire transaction process. Students will examine the responsibilities of exporters, importers, carriers, freight forwarders, banks, insurance companies, customs authorities, and other logistics service providers.

The course also emphasizes practical problem-solving. Students will learn how contractual terms, payment conditions, transportation modes, logistics documents, insurance arrangements, and customs procedures influence logistics costs, delivery time, risk, and customer service.

The first half of each class will generally consist of an instructor lecture. During the second half, student teams will present topics that they select independently. The presentation topics should be related to international logistics, trade, transportation, supply chain management, or other subjects covered in the course.

[2] Course Learning Outcomes

Upon successful completion of the course, students should be able to:

First, explain the basic concepts, functions, and structures of international logistics and global supply chain management.

Second, describe the roles and responsibilities of major participants in international trade and logistics transactions.

Third, understand how international sales contracts affect logistics decisions, costs, risks, and responsibilities.

Fourth, explain the functions and practical implications of Incoterms in international trade transactions.

Fifth, compare major international payment methods and evaluate their advantages, disadvantages, and risks.

Sixth, identify and explain major international commercial and transportation documents.

Seventh, understand the principles and functions of international cargo insurance.

Eighth, compare ocean, air, land, and multimodal transportation in terms of cost, speed, reliability, capacity, and risk.

Ninth, explain the importance of export packaging, logistics security, and customs clearance.

Tenth, analyze international logistics problems from an integrated supply chain perspective.

Eleventh, communicate logistics-related information effectively through team presentations and class discussions.

Twelfth, apply course concepts to actual international trade and logistics cases.

[3] Class Delivery Method

The course will combine instructor lectures, student team presentations, case discussions, question-and-answer sessions, and classroom activities.

During the first half of each class, the instructor will explain the major concepts, procedures, rules, documents, and practical issues related to the weekly topic. Lectures will focus on both theoretical understanding and practical application.

During the second half of each class, student teams will give presentations. Each team will independently select a presentation topic related to international logistics, international trade, global supply chains, transportation, customs, logistics technology, logistics companies, logistics cases, or other relevant issues.

Presentation topics should be sufficiently specific and should provide useful information to other students. Teams are encouraged to use actual company cases, logistics systems, trade procedures, industry data, news reports, government materials, and academic or professional sources.

Student presentation content is part of the official course material. Questions based on student presentations may be included in the midterm examination, final examination, quizzes, or other assessments. Therefore, all students are responsible for understanding both the instructor's lectures and the major content presented by other teams.

Students are expected to attend class regularly, review course materials, participate in discussions, and prepare for team activities. Because the course is taught in English, lectures, presentation materials, examinations, and major course communications will generally be provided in English.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	30 %	0 %	0 %	0 %	0 %	20 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	40 %	0 %	10 %	0 %	0 %	30 %

[4] Grading Policies

The course uses an absolute grading system.

- Midterm Examination: 30%
- Final Examination: 30%
- Team Presentation: 20%
- Attendance: 10%
- Other Assessments: 10%

- Total: 100%

The evaluation percentages may be adjusted depending on class size, course progress, university regulations, or other instructional circumstances. Any adjustment will be announced to students in advance.

Other assessments may include quizzes, assignments, class participation, individual activities, team activities, case analyses, presentation feedback, or other academic tasks.

③ Percentage of grade evaluation

Exam		Attendance		Assignment	
60	%	20	%	20	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Lecture materials will be provided in class or LMS.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction and Overview of International Logistics – Introduction to the course objectives, class procedures, assessment methods, attendance policy, and team presentation requirements – Definition, scope, functions, and development of international logistics – Major participants and activities in international logistics – Activity: Formation of student teams and discussion of presentation topics
Second week	International Supply Chain Management – Concepts and structures of international and global supply chains – Relationships among sourcing, production, inventory, transportation, distribution, and customer service – Supply chain efficiency, responsiveness, integration, visibility, and resilience
Third week	International Logistics Infrastructure – Functions of ports, airports, inland terminals, warehouses, distribution centers, and logistics clusters – International transportation networks and logistics corridors – Roles of governments, customs authorities, carriers, terminal operators, freight forwarders, and logistics service providers – Student team presentation
Fourth week	International Sales Contracts – Basic structure of international sales contracts – Offer, acceptance, obligations of buyers and sellers, delivery, payment, and dispute-related clauses – Relationship between contracts and international logistics decisions – Risks arising from incomplete or unclear contract terms – Student team presentation
Fifth week	Terms of Trade and Incoterms – Purpose and structure of Incoterms – Allocation of costs, risks, transportation responsibilities, and insurance responsibilities – Comparison of major Incoterms rules – Selection and practical application of appropriate trade terms – Student team presentation
Sixth week	International Payment Methods – Advance payment, open account, documentary collection, and documentary credit – Basic procedures and parties involved in international payment – Commercial, credit, country, documentary, and payment risks – Relationship between payment terms and logistics documents – Student team presentation
Seventh week	International Commercial Documents – Commercial invoice, packing list, certificate of origin, inspection certificate, insurance certificate, and customs documents – Functions of bills of lading, sea waybills, air waybills, and multimodal transport documents – Documentary accuracy, consistency, and common errors – Digital and electronic trade documents – Student team presentation

Eighth week	Midterm Examination – Examination coverage: Weeks 1 through 7 – The examination may include multiple-choice, short-answer, subjective, application, and essay questions. – Materials from student presentations may be included in the examination.
Ninth week	International Cargo Insurance – Functions and principles of cargo insurance – Insurable interest, insured risks, exclusions, total loss, partial loss, and claims – Relationship among trade terms, transportation contracts, and insurance contracts – Procedures for handling cargo damage and insurance claims – Student team presentation
Tenth week	International Ocean Transportation – Characteristics and structure of ocean transportation – Liner and charter services – Container transportation, freight rates, surcharges, and shipping schedules – Roles of shipping companies, freight forwarders, non-vessel-operating common carriers, ports, and terminals – Bills of lading and carrier liability – Student team presentation
Eleventh week	International Air Transportation – Characteristics and structure of international air cargo transportation – Advantages, limitations, cost structure, and appropriate cargo types – Roles of airlines, air freight forwarders, airports, and cargo terminals – Air waybills, air cargo handling, and security procedures – Student team presentation
Twelfth week	International Land and Multimodal Transportation – Road, rail, and inland transportation in international logistics – International multimodal transportation and transport coordination – Intermodal terminals, container transfer, and inland logistics networks – Responsibilities of multimodal transport operators – Comparison of single-mode and multimodal transportation – Student team presentation
Thirteenth week	Export Packaging and Cargo Handling – Functions and requirements of export packaging – Protection of cargo against damage, moisture, shock, vibration, theft, and environmental conditions – Packaging materials, marking, labeling, palletization, and containerization – Relationship among packaging, transportation mode, cargo characteristics, cost, and sustainability – Student team presentation
Fourteenth week	International Logistics Security and Customs Clearance – Supply chain security, cargo inspection, theft prevention, and risk management – International logistics security programs and security responsibilities – Basic customs clearance procedures for exports and imports – Customs declarations, tariff classification, customs valuation, origin, duties, and required documents – Roles of customs brokers, importers, exporters, and customs authorities – Student team presentation and course review
Fifteenth week	Final Examination – Examination coverage: Materials studied after the midterm examination and comprehensive course concepts, as announced by the instructor – The examination may include multiple-choice, short-answer, subjective, application, case-analysis, and essay questions. – Materials from student presentations may be included in the examination.
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Understanding of Global markets in cultural content	Course Number	0010886001
Major / School Year	School of Global Trade & Service / 3	completion division / Grade evaluation	/
Department/Professor	School of Global Trade & Service / 박영은	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[ZZ-200:화(044)(045)(046)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course aims to examine the influence of the Korean Wave and the cultural content market in each region of the world based on an understanding of the cultural content (and furthermore, entertainment) industry, which is expanding further in the digital trade era. By understanding the characteristics of cultural content markets in various global regions, such as the Americas (North America, Latin America), Asia Pacific, Europe, the Middle East, and Africa, students taking this course will lay the foundation for establishing a global strategy for the Korean Wave. In addition, it aims to plan and directly produce content that can cover the global market.

[2] Course Learning Outcomes

This course is designed to provide students with those course learning outcomes:

1. Understanding the main characteristics of each global region.
2. Understanding each world region's major cultural content industries and content characteristics.
3. Practicing leadership, self-directed learning, and teamwork while applying various learner-led innovative teaching methods.
4. While understanding the diversity of global cultural content, directly producing K-content suitable for the worldwide market.
5. Developing strategic & critical thinking and creativity to create strategies for the globalization of the global Hallyu (Korean wave) and K-contents.

[3] Class Delivery Method

Lectures, Discussions, Video material learning, Team activities and presentations, Individual activities, etc. (This will be a learner-led class.)

100% 온라인수업, 절대평가

(온라인 수업 특성상 병가, 공결, 회사원출석인정원 등은 모두 인정되지 않습니다.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	한국콘텐츠진흥원 (KOCCA)	Publisher	한국콘텐츠진흥원 (KOCCA)	Textbook	2025 Foreign Contents Market Analysis (2025 해외 콘텐츠시장 분석)	Issued year	2026
(2)	Author	박영은	Publisher	Communication Books	Textbook	엔터테인먼트 경영전략 Entertainment Business Strategy	Issued year	2021
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation (ONLINE)
Second week	VIDEO TALK (Subject: Cultural Difference) (ONLINE)
Third week	Basics of Global Hallyu and Entertainment Industry/ Basic concepts of the Global Market (ONLINE)
Fourth week	A study on cultural content in the North American market (1) (ONLINE)
Fifth week	A study on cultural content in the North American market (2), American Movie (ONLINE)
Sixth week	A study on cultural content in the European market (1) (ONLINE)
Seventh week	A study on cultural content in the European market (2), French Movie (ONLINE)
Eighth week	Mid-Term Exam (30%, Video submission deadline 2026.10.20 Before midnight) (ONLINE)
Ninth week	A study on cultural content in the Asian market (1), Indian Movie (ONLINE)
Tenth week	A study on cultural content in the Asian market (2) (ONLINE)
Eleventh week	A study on cultural content in the Asian market (3), Japanese Movie (ONLINE)
Twelfth week	A study on cultural content in the Latin American market, Peruvian Movie (ONLINE)
Thirteenth week	A study on cultural content in the Middle East, Africa, Egyptian Movie (ONLINE)
Fourteenth week	Final Preparation & Feedback (ONLINE)
Fifteenth week	Final Exam 30%, Video submission deadline 2026.12.8 Before midnight) (ONLINE)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	International Logistics Management		Course Number	0001267002			
Major / School Year	Division of International Trade(Evening)	/ 3	completion division /Grade evaluation	/			
Department/Professor	School of Global Trade & Service	/ 안영효	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number	A weekday / class / lecture room		[14-115:수(011)(012)(013)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

International Logistics Management introduces the fundamental concepts, systems, procedures, and managerial issues associated with the movement of goods across national borders. The course examines international logistics as an integrated process involving international trade transactions, transportation, documentation, insurance, customs clearance, security, packaging, and supply chain coordination.

The course covers international supply chain management, international logistics infrastructure, international sales contracts, Incoterms, international payment methods, commercial documents, cargo insurance, ocean transportation, air transportation, land and multimodal transportation, export packaging, logistics security, and customs clearance.

The purpose of the course is to help students understand how international trade and logistics activities are connected throughout the entire transaction process. Students will examine the responsibilities of exporters, importers, carriers, freight forwarders, banks, insurance companies, customs authorities, and other logistics service providers.

The course also emphasizes practical problem-solving. Students will learn how contractual terms, payment conditions, transportation modes, logistics documents, insurance arrangements, and customs procedures influence logistics costs, delivery time, risk, and customer service.

The first half of each class will generally consist of an instructor lecture. During the second half, student teams will present topics that they select independently. The presentation topics should be related to international logistics, trade, transportation, supply chain management, or other subjects covered in the course.

[2] Course Learning Outcomes

Upon successful completion of the course, students should be able to:

First, explain the basic concepts, functions, and structures of international logistics and global supply chain management.

Second, describe the roles and responsibilities of major participants in international trade and logistics transactions.

Third, understand how international sales contracts affect logistics decisions, costs, risks, and responsibilities.

Fourth, explain the functions and practical implications of Incoterms in international trade transactions.

Fifth, compare major international payment methods and evaluate their advantages, disadvantages, and risks.

Sixth, identify and explain major international commercial and transportation documents.

Seventh, understand the principles and functions of international cargo insurance.

Eighth, compare ocean, air, land, and multimodal transportation in terms of cost, speed, reliability, capacity, and risk.

Ninth, explain the importance of export packaging, logistics security, and customs clearance.

Tenth, analyze international logistics problems from an integrated supply chain perspective.

Eleventh, communicate logistics-related information effectively through team presentations and class discussions.

Twelfth, apply course concepts to actual international trade and logistics cases.

[3] Class Delivery Method

The course will combine instructor lectures, student team presentations, case discussions, question-and-answer sessions, and classroom activities.

During the first half of each class, the instructor will explain the major concepts, procedures, rules, documents, and practical issues related to the weekly topic. Lectures will focus on both theoretical understanding and practical application.

During the second half of each class, student teams will give presentations. Each team will independently select a presentation topic related to international logistics, international trade, global supply chains, transportation, customs, logistics technology, logistics companies, logistics cases, or other relevant issues.

Presentation topics should be sufficiently specific and should provide useful information to other students. Teams are encouraged to use actual company cases, logistics systems, trade procedures, industry data, news reports, government materials, and academic or professional sources.

Student presentation content is part of the official course material. Questions based on student presentations may be included in the midterm examination, final examination, quizzes, or other assessments. Therefore, all students are responsible for understanding both the instructor's lectures and the major content presented by other teams.

Students are expected to attend class regularly, review course materials, participate in discussions, and prepare for team activities. Because the course is taught in English, lectures, presentation materials, examinations, and major course communications will generally be provided in English.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	30 %	0 %	0 %	0 %	0 %	20 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	40 %	0 %	10 %	0 %	0 %	30 %

[4] Grading Policies

The course uses an absolute grading system.

- Midterm Examination: 30%
- Final Examination: 30%
- Team Presentation: 20%
- Attendance: 10%
- Other Assessments: 10%

- Total: 100%

The evaluation percentages may be adjusted depending on class size, course progress, university regulations, or other instructional circumstances. Any adjustment will be announced to students in advance.

Other assessments may include quizzes, assignments, class participation, individual activities, team activities, case analyses, presentation feedback, or other academic tasks.

③ Percentage of grade evaluation

Exam		Attendance		Assignment	
60	%	20	%	20	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Lecture materials will be provided in class or LMS.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction and Overview of International Logistics – Introduction to the course objectives, class procedures, assessment methods, attendance policy, and team presentation requirements – Definition, scope, functions, and development of international logistics – Major participants and activities in international logistics – Activity: Formation of student teams and discussion of presentation topics
Second week	International Supply Chain Management – Concepts and structures of international and global supply chains – Relationships among sourcing, production, inventory, transportation, distribution, and customer service – Supply chain efficiency, responsiveness, integration, visibility, and resilience
Third week	International Logistics Infrastructure – Functions of ports, airports, inland terminals, warehouses, distribution centers, and logistics clusters – International transportation networks and logistics corridors – Roles of governments, customs authorities, carriers, terminal operators, freight forwarders, and logistics service providers – Student team presentation
Fourth week	International Sales Contracts – Basic structure of international sales contracts – Offer, acceptance, obligations of buyers and sellers, delivery, payment, and dispute-related clauses – Relationship between contracts and international logistics decisions – Risks arising from incomplete or unclear contract terms – Student team presentation
Fifth week	Terms of Trade and Incoterms – Purpose and structure of Incoterms – Allocation of costs, risks, transportation responsibilities, and insurance responsibilities – Comparison of major Incoterms rules – Selection and practical application of appropriate trade terms – Student team presentation
Sixth week	International Payment Methods – Advance payment, open account, documentary collection, and documentary credit – Basic procedures and parties involved in international payment – Commercial, credit, country, documentary, and payment risks – Relationship between payment terms and logistics documents – Student team presentation
Seventh week	International Commercial Documents – Commercial invoice, packing list, certificate of origin, inspection certificate, insurance certificate, and customs documents – Functions of bills of lading, sea waybills, air waybills, and multimodal transport documents – Documentary accuracy, consistency, and common errors – Digital and electronic trade documents – Student team presentation

Eighth week	Midterm Examination – Examination coverage: Weeks 1 through 7 – The examination may include multiple-choice, short-answer, subjective, application, and essay questions. – Materials from student presentations may be included in the examination.
Ninth week	International Cargo Insurance – Functions and principles of cargo insurance – Insurable interest, insured risks, exclusions, total loss, partial loss, and claims – Relationship among trade terms, transportation contracts, and insurance contracts – Procedures for handling cargo damage and insurance claims – Student team presentation
Tenth week	International Ocean Transportation – Characteristics and structure of ocean transportation – Liner and charter services – Container transportation, freight rates, surcharges, and shipping schedules – Roles of shipping companies, freight forwarders, non-vessel-operating common carriers, ports, and terminals – Bills of lading and carrier liability – Student team presentation
Eleventh week	International Air Transportation – Characteristics and structure of international air cargo transportation – Advantages, limitations, cost structure, and appropriate cargo types – Roles of airlines, air freight forwarders, airports, and cargo terminals – Air waybills, air cargo handling, and security procedures – Student team presentation
Twelfth week	International Land and Multimodal Transportation – Road, rail, and inland transportation in international logistics – International multimodal transportation and transport coordination – Intermodal terminals, container transfer, and inland logistics networks – Responsibilities of multimodal transport operators – Comparison of single-mode and multimodal transportation – Student team presentation
Thirteenth week	Export Packaging and Cargo Handling – Functions and requirements of export packaging – Protection of cargo against damage, moisture, shock, vibration, theft, and environmental conditions – Packaging materials, marking, labeling, palletization, and containerization – Relationship among packaging, transportation mode, cargo characteristics, cost, and sustainability – Student team presentation
Fourteenth week	International Logistics Security and Customs Clearance – Supply chain security, cargo inspection, theft prevention, and risk management – International logistics security programs and security responsibilities – Basic customs clearance procedures for exports and imports – Customs declarations, tariff classification, customs valuation, origin, duties, and required documents – Roles of customs brokers, importers, exporters, and customs authorities – Student team presentation and course review
Fifteenth week	Final Examination – Examination coverage: Materials studied after the midterm examination and comprehensive course concepts, as announced by the instructor – The examination may include multiple-choice, short-answer, subjective, application, case-analysis, and essay questions. – Materials from student presentations may be included in the examination.
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	BUSINESS ENGLISH(1)		Course Number	KB02004001		
Major / School Year	Division of International Trade(Evening)	/ 3	completion division /Grade evaluation	/		
Department/Professor	School of Global Trade & Service	/ 고보민	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358527	A weekday / class / lecture room	[14-115:화(011)(012)(013)]			
Office hours	Wed & Thurs		Medium of Instruction	EN		

[1] Outline / Purpose

This course is designed to develop students' professional competency in Trade English while providing comprehensive coverage of contemporary international trade practices and case studies. The curriculum integrates theoretical foundations with practical applications, enabling students to master both the language skills and operational knowledge essential for global business communication.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

Demonstrate proficiency in trade-specific English terminology and business communication.
 Apply the fundamental principles and procedures of international trade operations.
 Draft professional business correspondence, including inquiry letters, sales contracts, and trade documentation.
 Analyze and prepare various trade documents, including letters of credit, bills of lading, and commercial invoices.
 Understand and apply standard international trade practices through case study analysis.
 Develop practical skills in negotiating and executing international business transactions.

[3] Class Delivery Method

The course will consist of 70% lectures, 20% practice, and 10% discussion.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

· Attendance grades : Perfect score 20 (Article 56 (2) of the Bylaws for Enforcement) → General subject(3 credits) 1/3 point deduction for 1-hour absence → 1 point deduction for a three-hour absence

· Students who miss 1/3 or more of the actual class hours and cheating are not eligible for credits despite the test scores (Article 56 (3))

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	이신규	Publisher	두남	Textbook	International Trade Practice (English)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class Orientation (offline) Chapter 1. Export and Import Procedures (online)
Second week	Chapter 2. Establishing Business Relations (online)
Third week	Chapter 3. Offer and Acceptance (offline) In-class Assignment (5%)
Fourth week	Chapter 4. Basic Terms of Business Contracts (online)
Fifth week	Chapter 5. INCOTERMS (online)
Sixth week	Review of Chapters 1-5 (offline) In-class Assignment (5%)
Seventh week	Chapter 6. Trade Contracts (online)
Eighth week	Midterm Exam (40%) (offline)
Ninth week	Chapter 7. Order and Acknowledgment (online)
Tenth week	Chapter 8. Letter of Credit (1) (online)
Eleventh week	Chapter 8. Letter of Credit (2) (online)
Twelfth week	Review of Chapter 7 (offline) In-class Assignment (5%)
Thirteenth week	Review of Chapter 7 (offline) In-class Assignment (5%)
Fourteenth week	Chapter 9. International Cargo Transport (online)
Fifteenth week	Final Report (20%) (online)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The third assignment			date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	PHYSICS(2)		Course Number	0000102002		
Major / School Year	Dept. of Mechanical Engineering	/ 1	completion division / Grade evaluation	/		
Department/Professor	Dept. of Physics	/ 언후 도르츠	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-385:월(7-8A),금(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

본 교과목은 기계공학 전공 학생들이 공학 분야에서 요구되는 물리학의 기본 개념과 원리를 이해하고 이를 실제 문제에 적용할 수 있는 능력을 배양하는 것을 목적으로 한다. 전기장과 전위, 전류와 전기회로, 자기장, 전자기 유도, 파동과 광학 등 물리학의 주요 내용을 학습한다. 또한 물리 법칙을 수학적으로 표현하고 다양한 예제와 연습문제를 해결함으로써 논리적 사고력과 정량적 문제해결 능력을 향상시킨다.

[2] Course Learning Outcomes

1. 전기와 자기, 파동과 광학에 관한 기본 개념과 물리 법칙을 이해한다.
2. 물리 현상을 수식과 그래프를 이용하여 정량적으로 분석할 수 있다.
3. 물리학의 기본 원리를 활용하여 공학적 문제를 해결할 수 있다.
4. 다양한 예제와 과제 수행을 통해 논리적 사고력과 문제해결 능력을 향상시킨다.
5. 학습한 물리 개념을 기계공학 및 관련 공학 분야의 실제 현상에 적용할 수 있다.

[3] Class Delivery Method

수업은 교재와 강의자료를 활용한 이론 강의 및 문제풀이를 중심으로 진행한다. 주요 개념과 물리 법칙은 판서와 시청각 자료를 병행하여 설명하며, 각 단원별로 대표적인 예제와 연습문제를 다룬다. 학생들의 이해도를 확인하기 위해 수업 중 질의응답과 간단한 토론을 실시한다. 과제와 복습문제를 통해 학습 내용을 점검하며, 필요한 경우 추가 자료와 보충 설명을 제공한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Paul Peter Urone, Roger Hinrichs	Publisher	OpenStax, Rice University	Textbook	College Physics 2e	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

중간시험과 기말시험을 통해 주요 개념에 대한 이해도와 문제해결 능력을 평가한다. 시험은 전체 성적의 60%를 반영한다. 출석 및 수업 참여도는 20%를 반영하며, 결석과 지각은 대학의 학사규정에 따라 처리한다. 과제는 각 단원별 연습문제와 학습내용에 대한 이해도를 중심으로 평가하며 전체 성적의 20%를 반영한다.

[6] Weekly lesson plans

First week	교과목 소개 및 물리학 기초 복습 강의 목표, 수업 진행방법 및 성적평가방법을 안내한다. 물리량, 단위, 벡터 및 역학의 기본 개념을 복습한다.
Second week	단순조화운동과 축의 법칙 용수철의 복원력, 진폭, 주기, 진동수 및 각진동수의 개념을 학습한다. 용수철-질량계의 운동을 분석하고 관련 문제를 풀이한다.
Third week	단순조화운동의 에너지와 진자 운동에너지와 탄성퍼텐셜에너지 사이의 변환을 이해한다. 단진자와 물리진자의 주기 및 운동 특성을 학습한다.
Fourth week	파동의 기본 성질 횡파와 종파, 진폭, 파장, 주기, 진동수 및 파동속도의 관계를 학습한다. 줄에서 진행하는 파동의 특성을 분석한다.
Fifth week	파동의 중첩과 정상파 파동의 중첩 원리, 보강간섭과 상쇄간섭을 이해한다. 반사, 정상파, 마디, 배 및 공명의 개념을 학습한다.
Sixth week	소리의 발생과 전달 소리의 종파적 특성과 매질에 따른 음속의 차이를 학습한다. 소리의 세기, 세기준위 및 데시벨의 개념을 이해한다.
Seventh week	도플러 효과와 소리의 공명 음원과 관찰자의 상대운동에 따른 도플러 효과를 학습한다. 공기기둥의 정상파, 배음, 맥놀이 및 공명 현상을 분석한다.
Eighth week	중간시험 제1주부터 제7주까지 학습한 단순조화운동, 파동 및 소리의 주요 개념과 문제해결 능력을 평가한다.
Ninth week	전하와 쿨롱의 법칙 전하의 기본 성질, 전하 보존법칙 및 쿨롱의 법칙을 학습한다. 여러 점전하 사이에 작용하는 전기력을 계산한다.
Tenth week	전기장과 전기퍼텐셜 전기장의 정의와 전기력선의 특성을 이해한다. 전기퍼텐셜, 전위차 및 전기적 퍼텐셜에너지를 학습하고 관련 문제를 풀이한다.
Eleventh week	전기용량과 축전기 축전기의 구조와 전기용량의 개념을 학습한다. 축전기에 저장되는 에너지와 직렬 및 병렬 연결을 분석한다.
Twelfth week	전류, 저항 및 직류회로 전류, 전압, 저항 및 옴의 법칙을 학습한다. 저항의 직렬·병렬 연결과 키르히호프 법칙을 이용하여 기본 직류회로를 해석한다.
Thirteenth week	자기장과 자기력 자기장의 기본 개념을 이해하고, 이동하는 전하와 전류가 흐르는 도선에 작용하는 자기력을 학습한다. 전자기의 기본 원리를 설명한다.
Fourteenth week	전자기 유도 자기선속, 패러데이의 전자기 유도법칙 및 렌츠의 법칙을 학습한다. 발전기, 변압기 및 유도기전력의 기본 원리를 이해한다.
Fifteenth week	전자기파와 광학 전자기파의 기본 성질과 전자기 스펙트럼을 학습한다. 빛의 반사와 굴절, 거울과 렌즈에 의한 상의 형성을 이해하고 종합문제를 풀이한다.
Sixteenth week	기말시험 제9주부터 제15주까지 학습한 전기, 자기, 전자기 유도 및 광학의 주요 개념과 문제해결 능력을 종합적으로 평가한다.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Engineering Mathematics 2	Course Number	0008479001
Major / School Year	Dept. of Mechanical Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김백진	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-101:수(1)(2)] [08-482:토(1)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

- This course provides the mathematical foundation required for upper-level (third- and fourth-year) engineering courses in the College of Engineering
- It introduces essential mathematical concepts and analytical techniques that are widely used in engineering analysis and problem solving.

- 공과대학 3·4학년 전공 교과목 이수를 위한 수학적 기초 제공.
- 공학 문제의 해석과 해결에 필요한 핵심 수학 개념과 해석 기법 학습.

[2] Course Learning Outcomes

- Understand the fundamentals of (1) Linear Algebra, (2) Fourier Analysis, and (3) Partial Differential Equations.
- Develop analytical and problem-solving skills required for advanced engineering courses.

- (1) 선형대수학, (2) 푸리에 해석, (3) 편미분방정식의 기초 개념 이해.
- 상위 전공 교과목 학습에 필요한 해석 능력과 문제 해결 능력 함양.

[3] Class Delivery Method

- Weekly Schedule (3 Hours Total)
 - 2 Hours (Online): Watch lecture videos before class.
 - 1 Hour (In-Person): Participate in offline sessions focused on discussions based on the video content.
- Both online and in-person classes will be conducted using the course textbook.
- Lectures will be delivered using digital handwriting on a tablet PC.
- 온라인 혼합형 (플립 러닝) 수업으로 주 3시간 강의 중 2시간은 동영상 학습하고 1시간은 학습한 동영상을 기반으로 오프라인 수업 진행.
- 대면 및 온라인 수업 모두 교재 기반으로 진행
- 태블릿 PC를 이용한 판서로 수업 진행.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Erwin Kreysiz	Publisher	Wiley	Textbook	Advanced Engineering Mathematics 10th Ed.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	OT Ch7.1 Matrices, Vectors Ch7.2 Matrix Multiplication
Second week	Ch7.3 Gauss Elimination Ch7.4 Linear Independence Ch7.6 Second- and Third-Order Determinants
Third week	Ch7.7 Cramer's Rule Ch7.8 Gauss-Jordan Elimination
Fourth week	Quiz1 Ch8.1 Matrix Eigenvalue Ch8.2 Applications of Eigenvalue, Ch8.3 Symmetric, Skew-Symmetric, Orthogonal Matrices
Fifth week	Ch9.1 Vectors in 2-Space and 3-Space Ch9.2 Inner Product
Sixth week	Ch9.3 Vector Product Ch9.4 Vector and Scalar Functions and Their Fields
Seventh week	Ch11.1 Fourier Series Ch11.2 Even and Odd Functions. Half-Range Expansions
Eighth week	Midterm exam
Ninth week	Ch11.3 Forced Oscillations Ch11.4 Approximation by Trigonometric Polynomials
Tenth week	Ch11.7 Fourier Integral Ch11.8 Fourier Cosine and Sine Transforms
Eleventh week	Quiz 2 Ch 11.9_Fourier_Transform Ch 12.1 Basic Concepts of PDEs
Twelfth week	Ch12.3 Solution by Separating Variables Ch12.4 D'Alembert's Solution of the Wave Equation
Thirteenth week	Ch12.6 1D_Heat_BC=0 Ch12.6 1D_Heat_BC_insulated_&_Steady_2D_Heat
Fourteenth week	Ch12.8 2D Wave Equation Ch12.9 Double Fourier Series
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Engineering Mathematics 2		Course Number	0008479002		
Major / School Year	Dept. of Mechanical Engineering	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김백진	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-101:목(2)(3)] [08-482:토(2)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

- This course provides the mathematical foundation required for upper-level (third- and fourth-year) engineering courses in the College of Engineering
- It introduces essential mathematical concepts and analytical techniques that are widely used in engineering analysis and problem solving.

- 공과대학 3·4학년 전공 교과목 이수를 위한 수학적 기초 제공.
- 공학 문제의 해석과 해결에 필요한 핵심 수학 개념과 해석 기법 학습.

[2] Course Learning Outcomes

- Understand the fundamentals of (1) Linear Algebra, (2) Fourier Analysis, and (3) Partial Differential Equations.
- Develop analytical and problem-solving skills required for advanced engineering courses.

- (1) 선형대수학, (2) 푸리에 해석, (3) 편미분방정식의 기초 개념 이해.
- 상위 전공 교과목 학습에 필요한 해석 능력과 문제 해결 능력 함양.

[3] Class Delivery Method

- Weekly Schedule (3 Hours Total)
 - 2 Hours (Online): Watch lecture videos before class.
 - 1 Hour (In-Person): Participate in offline sessions focused on discussions based on the video content.
- Both online and in-person classes will be conducted using the course textbook.
- Lectures will be delivered using digital handwriting on a tablet PC.
- 온라인 혼합형 (플립 러닝) 수업으로 주 3시간 강의 중 2시간은 동영상 학습하고 1시간은 학습한 동영상을 기반으로 오프라인 수업 진행.
- 대면 및 온라인 수업 모두 교재 기반으로 진행
- 태블릿 PC를 이용한 판서로 수업 진행.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Erwin Kreysiz	Publisher	Wiley	Textbook	Advanced Engineering Mathematics 10th Ed.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	OT Ch7.1 Matrices, Vectors Ch7.2 Matrix Multiplication
Second week	Ch7.3 Gauss Elimination Ch7.4 Linear Independence Ch7.6 Second- and Third-Order Determinants
Third week	Ch7.7 Cramer's Rule Ch7.8 Gauss-Jordan Elimination
Fourth week	Quiz1 Ch8.1 Matrix Eigenvalue Ch8.2 Applications of Eigenvalue, Ch8.3 Symmetric, Skew-Symmetric, Orthogonal Matrices
Fifth week	Ch9.1 Vectors in 2-Space and 3-Space Ch9.2 Inner Product
Sixth week	Ch9.3 Vector Product Ch9.4 Vector and Scalar Functions and Their Fields
Seventh week	Ch11.1 Fourier Series Ch11.2 Even and Odd Functions. Half-Range Expansions
Eighth week	Midterm exam
Ninth week	Ch11.3 Forced Oscillations Ch11.4 Approximation by Trigonometric Polynomials
Tenth week	Ch11.7 Fourier Integral Ch11.8 Fourier Cosine and Sine Transforms
Eleventh week	Quiz 2 Ch 11.9_Fourier_Transform Ch 12.1 Basic Concepts of PDEs
Twelfth week	Ch12.3 Solution by Separating Variables Ch12.4 D'Alembert's Solution of the Wave Equation
Thirteenth week	Ch12.6 1D_Heat_BC=0 Ch12.6 1D_Heat_BC_insulated_&_Steady_2D_Heat
Fourteenth week	Ch12.8 2D Wave Equation Ch12.9 Double Fourier Series
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Dynamics		Course Number	0001844003			
Major / School Year	Dept. of Mechanical Engineering	/ 2	completion division /Grade evaluation	/			
Department/Professor	Dept. of Mechanical Engineering	/ 김영진	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[08-101:목(7)(8)] [08-386:월(5)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Dynamics		Course Number	0001844004			
Major / School Year	Dept. of Mechanical Engineering	/ 2	completion division /Grade evaluation	/			
Department/Professor	Dept. of Mechanical Engineering	/ 김영진	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[08-101:목(5)(6)] [08-386:월(6)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	FLUID MECHANICS(1)		Course Number	EA06057003		
Major / School Year	Dept. of Mechanical Engineering	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 권재성	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-386:월(7-8A), 화(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

유체역학(1)은 주요하게 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 다룬다. 이 주제들은 자연에서 자주 마주하게 되는 다양한 유체 유동현상들을 분석하는데 필요한 중요 기초 지식을 공급한다. 이를 통해 학부생들은 유체의 기본적인 정의와 특성들, 정지된 유체 내의 압력과 그 압력측정방법, 유체유동의 분류와 그 유동에 수반되는 유체입자의 거동특징, 유체유동의 속도와 가속도 개념, 포텐셜유동, 유체유동을 지배하는 기본방정식의 종류와 그 방정식을 이용한 비압축성/ 비점성유동의 미·적분해석 등을 배우게 될 것이다.

[2] Course Learning Outcomes

유체역학(1)에서 수강생들은 유체의 기본적 정의, 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 배움으로써 자연에서 관찰되는 다양한 유체 유동 현상들을 수학적·물리적으로 분석하고 이해할 수 있는 능력을 구비하게 될 것이다.

[3] Class Delivery Method

- 본 강의는 온라인(동영상)+오프라인 수업을 병행하는 방식으로 진행.
- 매주 3시간에 해당하는 온라인 동영상과 해당 슬라이드 자료는 이러닝 웹사이트 LMS시스템(cyber.inu.ac.kr)에 미리 업로드할 예정임. 따라서 수강생들은 오프라인 수업에 오기 전 그 온라인 자료들을 완벽히 시청하여야 함. 오프라인 수업은 온라인 자료에 대한 수강생들의 질의와 답변, 그리고 관련 예제들의 풀이를 하는 시간으로 구성됨.
- 온라인 동영상은 시간표에 정해진 수업시간에 맞춰 접속하여 시청해야만 LMS상에 출석으로 기록되며, 수업시간 이외에 접속하여 시청할 경우 아무리 100%시청했다 하더라도 출석으로 간주되지 않으니 이점 반드시 유념할 것.
- 본 강의는 영어강의로 진행하며, 그에 따라 수업자료, 과제, 시험문제 등 모두 영어로 작성 또는 출제
- 수업과 관련된 모든 공지사항들은 이러닝 웹사이트에 게시할 것임. 개강 전까지 웹사이트에 들어가서 본인의 개인 연락처를 반드시 확인하여 필요 시 수정하도록 하고, 별도의 공지가 없다고 하더라도 주기적으로 웹사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 할 것.
- 시험은 2회(중간고사, 기말고사) 치뤄지며, 대면방식으로 진행.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	40 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bruce R. Munson	Publisher	Wiley	Textbook	Fluid Mechanics, 7th Ed.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert W. Fox	Publisher	Wiley	Textbook	Introduction to Fluid Mechanics, 6th Ed.	Issued year	
(2)	Author	Frank M. White	Publisher	McGraw Hill	Textbook	Fluid Mechanics	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	유체역학의 소개 - 유체역학의 기초 및 주요개념 소개
Second week	유체정역학(1) - 압력장에 대한 기본 방정식 및 측정 - 정지된 유체 내의 압력분포
Third week	유체정역학(2) - 평면에 작용하는 정수력 - 곡면에 작용하는 정수력
Fourth week	유체정역학(3) - 부력, 부체와 안정성
Fifth week	유체동역학(1) - 정압, 동압 및 전압
Sixth week	유체동역학(2) - Bernoulli방정식의 개념 및 응용 - Bernoulli방정식의 사용제한 조건들
Seventh week	유체운동학(1) - 속도장 및 가속도장 - 검사체적과 시스템의 개념
Eighth week	중간고사
Ninth week	유체운동학(2) - Reynolds수송정리의 유도(정상,비정상) - 검사체적의 선택(정지, 이동체적)
Tenth week	유한 검사체적 해석(1) - 질량보존법칙: 연속방정식 - Newton의 제2법칙: 운동량방정식
Eleventh week	유한 검사체적 해석(2) - 각운동량방정식의 유도 및 적용 - 에너지방정식의 유도 및 적용
Twelfth week	유동의 미분해석(1) - 유체요소의 운동학 - 질량보존법칙 및 선형운동량보존
Thirteenth week	유동의 미분해석(2) - 비점성유동 - 기본 포텐셜유동
Fourteenth week	유동의 미분해석(3) - 비점성유동 - 기본 포텐셜유동
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	FLUID MECHANICS(1)		Course Number	EA06057004		
Major / School Year	Dept. of Mechanical Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 권재성	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-386:월(8B-9), 화(1-2A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

유체역학(1)은 주요하게 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 다룬다. 이 주제들은 자연에서 자주 마주하게 되는 다양한 유체 유동현상들을 분석하는데 필요한 중요 기초 지식을 공급한다. 이를 통해 학부생들은 유체의 기본적인 정의와 특성들, 정지된 유체 내의 압력과 그 압력측정방법, 유체유동의 분류와 그 유동에 수반되는 유체입자의 거동특징, 유체유동의 속도와 가속도 개념, 포텐셜유동, 유체유동을 지배하는 기본방정식의 종류와 그 방정식을 이용한 비압축성/ 비점성유동의 미·적분해석 등을 배우게 될 것이다.

[2] Course Learning Outcomes

유체역학(1)에서 수강생들은 유체의 기본적 정의, 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 배움으로써 자연에서 관찰되는 다양한 유체 유동 현상들을 수학적·물리적으로 분석하고 이해할 수 있는 능력을 구비하게 될 것이다.

[3] Class Delivery Method

- 본 강의는 온라인(동영상)+오프라인 수업을 병행하는 방식으로 진행.
- 매주 3시간에 해당하는 온라인 동영상과 해당 슬라이드 자료는 이러닝 웹사이트 LMS시스템(cyber.inu.ac.kr)에 미리 업로드할 예정임. 따라서 수강생들은 오프라인 수업에 오기 전 그 온라인 자료들을 완벽히 시청하여야 함. 오프라인 수업은 온라인 자료에 대한 수강생들의 질의와 답변, 그리고 관련 예제들의 풀이를 하는 시간으로 구성됨.
- 온라인 동영상은 시간표에 정해진 수업시간에 맞춰 접속하여 시청해야만 LMS상에 출석으로 기록되며, 수업시간 이외에 접속하여 시청할 경우 아무리 100%시청했다 하더라도 출석으로 간주되지 않으니 이점 반드시 유념할 것.
- 본 강의는 영어강의로 진행하며, 그에 따라 수업자료, 과제, 시험문제 등 모두 영어로 작성 또는 출제
- 수업과 관련된 모든 공지사항들은 이러닝 웹사이트에 게시할 것임. 개강 전까지 웹사이트에 들어가서 본인의 개인 연락처를 반드시 확인하여 필요 시 수정하도록 하고, 별도의 공지가 없다고 하더라도 주기적으로 웹사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 할 것.
- 시험은 2회(중간고사, 기말고사) 치뤄지며, 대면방식으로 진행.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	40 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bruce R. Munson	Publisher	Wiley	Textbook	Fluid Mechanics, 7th Ed.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert W. Fox	Publisher	Wiley	Textbook	Introduction to Fluid Mechanics, 6th Ed.	Issued year	
(2)	Author	Frank M. White	Publisher	McGraw Hill	Textbook	Fluid Mechanics	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	유체역학의 소개 - 유체역학의 기초 및 주요개념 소개
Second week	유체정역학(1) - 압력장에 대한 기본 방정식 및 측정 - 정지된 유체 내의 압력분포
Third week	유체정역학(2) - 평면에 작용하는 정수력 - 곡면에 작용하는 정수력
Fourth week	유체정역학(3) - 부력, 부체와 안정성
Fifth week	유체동역학(1) - 정압, 동압 및 전압
Sixth week	유체동역학(2) - Bernoulli방정식의 개념 및 응용 - Bernoulli방정식의 사용제한 조건들
Seventh week	유체운동학(1) - 속도장 및 가속도장 - 검사체적과 시스템의 개념
Eighth week	중간고사
Ninth week	유체운동학(2) - Reynolds수송정리의 유도(정상,비정상) - 검사체적의 선택(정지, 이동체적)
Tenth week	유한 검사체적 해석(1) - 질량보존법칙: 연속방정식 - Newton의 제2법칙: 운동량방정식
Eleventh week	유한 검사체적 해석(2) - 각운동량방정식의 유도 및 적용 - 에너지방정식의 유도 및 적용
Twelfth week	유동의 미분해석(1) - 유체요소의 운동학 - 질량보존법칙 및 선형운동량보존
Thirteenth week	유동의 미분해석(2) - 비점성유동 - 기본 포텐셜유동
Fourteenth week	유동의 미분해석(3) - 비점성유동 - 기본 포텐셜유동
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Applied Mathematics for Mechanical Engineering 2		Course Number	0010897001		
Major / School Year	Dept. of Mechanical Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 이강주	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[08-386:수(4-5A),목(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

AI 이해를 위한 기초 수학 개념 이해

[2] Course Learning Outcomes

AI 이론을 이해할 수 있도록 기본적인 미적분, 벡터, 행렬, 최적화 이론은 배움

[3] Class Delivery Method

강의 및 과제

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	-	Publisher	-	Textbook	-	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Hala Nelson	Publisher	O'Reilly Media	Textbook	Essential Math for AI	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	선형대수학 – 벡터
Second week	선형대수학 – 행렬 1
Third week	선형대수학 – 행렬 2
Fourth week	선형대수학 – 고유값 1
Fifth week	선형대수학 – 고유값 2
Sixth week	미적분과 편미분
Seventh week	연쇄법칙
Eighth week	중간고사
Ninth week	확률과 통계 1
Tenth week	확률과 통계 2
Eleventh week	최적화 1
Twelfth week	최적화 2
Thirteenth week	머신러닝/딥러닝
Fourteenth week	CNN
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Applied Mathematics for Mechanical Engineering 2	Course Number	0010897003
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 신창훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-101A:금(5B-6)] [08-272:수(4-5A)]		
Office hours	Medium of Instruction ES		

[1] Outline / Purpose

본 교과목은 기계공학 데이터 분석을 위한 수학적 기반과 이해를 함양하는 것을 목적으로 한다. 전통적인 공학수학이 미분방정식 풀이에 집중했다면, 본 과목은 행렬을 데이터로, 행렬 분해를 정보의 추출로 바라보는 현대적 관점에서 선형대수를 재구성한다. 오늘날의 산업 시는 “수학 기반 → 알고리즘 → 라이브러리 → 응용”의 4층 구조 위에서 있으며, 위층의 도구는 계속 바뀌어도 가장 아래층의 수학은 변하지 않는다. Gilbert Strang 교수의 Linear Algebra and Learning from Data를 주교재로 하여, 열공간·특이값분해(SVD)·주성분분석(PCA)에서 출발해 확률·통계, 최적화(경사하강법), 인공신경망·역전파에 이르는 흐름을 다룬다.

학기는 두 개의 특강이 정규과정을 감싸는 구조로 운영한다. 1주차 특강에서는 수학에 앞서 왜 공학 데이터 분석에 응용수학이 필수적인지를 산업 현장의 실제 사례(유동 해석, 회전기기 예지보전, 신호 예측·진단, 품질 검사)와 진로 관점에서 제시하여 학습 동기를 세우고, 14주차 특강에서는 한 학기 동안 배운 수학이 다중분류·딥러닝과 현대 라이브러리 실무로 어떻게 이어지는지를 종합한다.

수업은 데이터 분석을 위한 수학적 이해와 응용역량 함양을 최우선으로 하여 증정보다 결과·직관 중심으로 진행하며, 부담이 큰 주제는 개관 수준으로 진행한다. 본 강의에서는 주요 개념은 교수의 코드 시연(SVD 이미지 압축, 경사하강법 수렴 과정 등)으로 진행하고, — 실제 코딩과 데이터 분석 프로젝트는 다음 학기의 심화 공학 데이터 분석 과목에서 본격적으로 다룬다.

[2] Course Learning Outcomes

본 강의를 통해, 최종적으로 학생은 실제 공학 데이터를 수학적으로 바라보고 정식화하는 기반 역량을 갖추게 된다.

- CLO1. 행렬을 데이터로 해석하고, 열공간·계수·내 부분공간과 주요 행렬 분해(LU, QR, 고유값분해, SVD)를 설명·계산할 수 있다.
- CLO2. SVD와 주성분분석(PCA)으로 데이터의 저차원 구조를 추출하는 원리를 설명하고, 이미지·음력장·유동장 등 기계공학 데이터에의 적용을 해석할 수 있다.
- CLO3. 최소자승법을 이해하고 정규방정식·QR 분해로 실험 데이터의 곡선 피팅·회귀 문제를 풀 수 있다.
- CLO4. 확률·통계의 기초와 공분산 행렬을 이해하고 다변량 센서 데이터의 불확실성 분석에 적용할 수 있다.
- CLO5. 볼록성·경사하강법(GD)·확률적 경사하강법(SGD)의 원리와 수렴 특성을 설명하고 그 거동(학습률·수렴 곡선)을 해석할 수 있다.
- CLO6. 인공신경망의 구성과 오차 역전파의 원리를 이해하고 학습 과정의 거동을 해석할 수 있다.
- CLO7. 본 과목의 수학이 현대 딥러닝 라이브러리와 기계공학 응용(유동 해석·예지보전·신호 진단·품질 검사)에서 수행하는 역할을 설명하고, 실제 공학 데이터 분석 문제를 수학적으로 정식화할 수 있다.

[3] Class Delivery Method

(선수과목) 응용기계수학 1, 공업수학 (또는 선형대수·미적분·확률 기초 이수 권장)
 (후속과목) 심화 공학 데이터 분석 (가칭, 차 학기 개설 예정 — 본 과목 수학 기반 위에서 실제 코딩·분석 프로젝트 수행)
 (강의언어) 한국어 (강의노트는 영문 제공)
 (학기 / 총 주차) 2학기 / 15주 (중간고사 8주, 기말고사 15주)

(강의 구성 개요)

구분 주차 주제 역할
 특강 I 1주 기계산업 시와 응용수학 (학기의 지도)
 모듈 A. 선형대수 2~7주 부분공간·분해·최소자승·SVD/PCA (데이터를 담는 언어)
 모듈 B. 확률·통계 9주 분포·공분산 (데이터의 불확실성)
 모듈 C. 최적화 10~11주 볼록성·경사하강법·SGD (모델을 맞추는 엔진)
 모듈 D. 학습 12~13주 신경망·역전파 (앞의 셋의 종합)
 특강 II 14주 다중분류·딥러닝과 연계 정리 (학기의 회수)
 평가 8·15주 중간·기말고사

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
35 %	0 %	65 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gilbert Strang	Publisher	Wellesley-Cambridge Press	Textbook	Linear Algebra and Learning from Data	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

(번역서) 딥러닝을 위한 선형대수학 (한빛출판사) 활용 가능

[6] Weekly lesson plans

First week	오리엔테이션 + 특강 I: 왜 공학 데이터 분석에 응용수학인가 · 기계산업 AI의 4층 구조(수학→알고리즘→라이브러리→응용) · 머신러닝의 기본 구조: 회귀와 분류(모델-손실함수-경사하강법) · 기계공학 응용과 진로(유동 해석, 예지보전, 신호 진단, 품질 검사)
Second week	벡터 공간과 행렬 · I.1 $Ax = b$ 의 선형결합 (핵심) · I.2 행렬곱, 열공간과 계수 (핵심)
Third week	4대 기본 부분공간 · I.3 네 부분공간의 구조 — 그림 중심 (핵심) · I.4 소거법과 LU — 계산 도구로 (개관)
Fourth week	직교성과 최소자승법 · I.5 직교 행렬과 QR (핵심) · II.2 최소자승: 정규방정식·QR (핵심), 의사역행렬 (개관)
Fifth week	고유값과 대칭·양정치 행렬 · I.6 고유값·고유벡터 (핵심) · I.7 양정치 행렬 — 에너지·고유값 판정 중심 (핵심), 나머지 판정법 (개관)
Sixth week	SVD (특이값 분해) · I.8 SVD의 의미와 계산 (핵심), 엄밀 유도 (개관)
Seventh week	PCA와 최적 저계수 근사 · I.9 주성분분석, Eckart-Young 정리의 의미 (핵심), 증명 (개관)
Eighth week	중간고사
Ninth week	확률과 통계 · V.1 평균·분산·확률 (핵심) · V.4 공분산 행렬 (핵심)
Tenth week	최적화 기초와 경사하강법 입문 · VI.1 볼록성과 최소 문제 — 기하 중심 (핵심) · VI.4 경사하강법의 원리 (핵심)
Eleventh week	경사하강법 심화와 SGD · VI.4 학습률과 수렴 (핵심) · VI.5 확률적 경사하강법 (핵심), ADAM (개관)
Twelfth week	신경망의 구성 · VII.1 DNN의 구성과 활성화함수 (핵심)
Thirteenth week	역전파와 학습 · VII.3 역전파와 연쇄법칙 — 스칼라 사례 중심, 행렬 일반형은 결과 제시 (핵심) · VII.4 하이퍼파라미터 (개관)
Fourteenth week	특강 II: 다중분류·딥러닝 종합과 응용수학의 연계 · 소프트맥스와 교차엔트로피(다중분류) · 심층신경망과 역전파의 재조명, CNN 소개 (개관) · 현대 알고리즘·라이브러리 생태계와 실전 응용(PINN 포함) · 한 학기 수학과의 매핑 정리
Fifteenth week	종합 정리 및 기말고사
Sixteenth week	보강

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
			submission	

The second assignment	assignment		date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Applied Mathematics for Mechanical Engineering 2	Course Number	0010897002
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 신창훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-101B:금(2B-3)] [08-272:수(8B-9)]		
Office hours	Medium of Instruction ES		

[1] Outline / Purpose

본 교과목은 기계공학 데이터 분석을 위한 수학적 기반과 이해를 함양하는 것을 목적으로 한다. 전통적인 공학수학이 미분방정식 풀이에 집중했다면, 본 과목은 행렬을 데이터로, 행렬 분해를 정보의 추출로 바라보는 현대적 관점에서 선형대수를 재구성한다. 오늘날의 산업 시는 “수학 기반 → 알고리즘 → 라이브러리 → 응용”의 4층 구조 위에서 있으며, 위층의 도구는 계속 바뀌어도 가장 아래층의 수학은 변하지 않는다. Gilbert Strang 교수의 Linear Algebra and Learning from Data를 주교재로 하여, 열공간·특이값분해(SVD)·주성분분석(PCA)에서 출발해 확률·통계, 최적화(경사하강법), 인공신경망·역전파에 이르는 흐름을 다룬다.

학기는 두 개의 특강이 정규과정을 감싸는 구조로 운영한다. 1주차 특강에서는 수학에 앞서 왜 공학 데이터 분석에 응용수학이 필수적인지를 산업 현장의 실제 사례(유동 해석, 회전기기 예지보전, 신호 예측·진단, 품질 검사)와 진로 관점에서 제시하여 학습 동기를 세우고, 14주차 특강에서는 한 학기 동안 배운 수학이 다중분류·딥러닝과 현대 라이브러리 실무로 어떻게 이어지는지를 종합한다.

수업은 데이터 분석을 위한 수학적 이해와 응용역량 함양을 최우선으로 하여 증정보다 결과·직관 중심으로 진행하며, 부담이 큰 주제는 개관 수준으로 진행한다. 본 강의에서는 주요 개념은 교수의 코드 시연(SVD 이미지 압축, 경사하강법 수렴 과정 등)으로 진행하고, — 실제 코딩과 데이터 분석 프로젝트는 다음 학기의 심화 공학 데이터 분석 과목에서 본격적으로 다룬다.

[2] Course Learning Outcomes

본 강의를 통해, 최종적으로 학생은 실제 공학 데이터를 수학적으로 바라보고 정식화하는 기반 역량을 갖추게 된다.

- CLO1. 행렬을 데이터로 해석하고, 열공간·계수·내 부분공간과 주요 행렬 분해(LU, QR, 고유값분해, SVD)를 설명·계산할 수 있다.
- CLO2. SVD와 주성분분석(PCA)으로 데이터의 저차원 구조를 추출하는 원리를 설명하고, 이미지·음력장·유동장 등 기계공학 데이터에의 적용을 해석할 수 있다.
- CLO3. 최소자승법을 이해하고 정규방정식·QR 분해로 실험 데이터의 곡선 피팅·회귀 문제를 풀 수 있다.
- CLO4. 확률·통계의 기초와 공분산 행렬을 이해하고 다변량 센서 데이터의 불확실성 분석에 적용할 수 있다.
- CLO5. 볼록성·경사하강법(GD)·확률적 경사하강법(SGD)의 원리와 수렴 특성을 설명하고 그 거동(학습률·수렴 곡선)을 해석할 수 있다.
- CLO6. 인공신경망의 구성과 오차 역전파의 원리를 이해하고 학습 과정의 거동을 해석할 수 있다.
- CLO7. 본 과목의 수학이 현대 딥러닝 라이브러리와 기계공학 응용(유동 해석·예지보전·신호 진단·품질 검사)에서 수행하는 역할을 설명하고, 실제 공학 데이터 분석 문제를 수학적으로 정식화할 수 있다.

[3] Class Delivery Method

(선수과목) 응용기계수학 1, 공업수학 (또는 선형대수·미적분·확률 기초 이수 권장)
 (후속과목) 심화 공학 데이터 분석 (가칭, 차 학기 개설 예정 — 본 과목 수학 기반 위에서 실제 코딩·분석 프로젝트 수행)
 (강의언어) 한국어 (강의노트는 영문 제공)
 (학기 / 총 주차) 2학기 / 15주 (중간고사 8주, 기말고사 15주)

(강의 구성 개요)

구분 주차 주제 역할
 특강 I 1주 기계산업 시와 응용수학 (학기의 지도)
 모듈 A. 선형대수 2~7주 부분공간·분해·최소자승·SVD/PCA (데이터를 담는 언어)
 모듈 B. 확률·통계 9주 분포·공분산 (데이터의 불확실성)
 모듈 C. 최적화 10~11주 볼록성·경사하강법·SGD (모델을 맞추는 엔진)
 모듈 D. 학습 12~13주 신경망·역전파 (앞의 셋의 종합)
 특강 II 14주 다중분류·딥러닝과 연계 정리 (학기의 회수)
 평가 8·15주 중간·기말고사

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
35 %	0 %	65 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gilbert Strang	Publisher	Wellesley-Cambridge Press	Textbook	Linear Algebra and Learning from Data	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

(번역서) 딥러닝을 위한 선형대수학 (한빛출판사) 활용 가능

[6] Weekly lesson plans

First week	오리엔테이션 + 특강 I: 왜 공학 데이터 분석에 응용수학인가 · 기계산업 AI의 4층 구조(수학→알고리즘→라이브러리→응용) · 머신러닝의 기본 구조: 회귀와 분류(모델-손실함수-경사하강법) · 기계공학 응용과 진로(유동 해석, 예지보전, 신호 진단, 품질 검사)
Second week	벡터 공간과 행렬 · I.1 $Ax = b$ 의 선형결합 (핵심) · I.2 행렬곱, 열공간과 계수 (핵심)
Third week	4대 기본 부분공간 · I.3 네 부분공간의 구조 — 그림 중심 (핵심) · I.4 소거법과 LU — 계산 도구로 (개관)
Fourth week	직교성과 최소자승법 · I.5 직교 행렬과 QR (핵심) · II.2 최소자승: 정규방정식·QR (핵심), 의사역행렬 (개관)
Fifth week	고유값과 대칭·양정치 행렬 · I.6 고유값·고유벡터 (핵심) · I.7 양정치 행렬 — 에너지·고유값 판정 중심 (핵심), 나머지 판정법 (개관)
Sixth week	SVD (특이값 분해) · I.8 SVD의 의미와 계산 (핵심), 엄밀 유도 (개관)
Seventh week	PCA와 최적 저계수 근사 · I.9 주성분분석, Eckart-Young 정리의 의미 (핵심), 증명 (개관)
Eighth week	중간고사
Ninth week	확률과 통계 · V.1 평균·분산·확률 (핵심) · V.4 공분산 행렬 (핵심)
Tenth week	최적화 기초와 경사하강법 입문 · VI.1 볼록성과 최소 문제 — 기하 중심 (핵심) · VI.4 경사하강법의 원리 (핵심)
Eleventh week	경사하강법 심화와 SGD · VI.4 학습률과 수렴 (핵심) · VI.5 확률적 경사하강법 (핵심), ADAM (개관)
Twelfth week	신경망의 구성 · VII.1 DNN의 구성과 활성화함수 (핵심)
Thirteenth week	역전파와 학습 · VII.3 역전파와 연쇄법칙 — 스칼라 사례 중심, 행렬 일반형은 결과 제시 (핵심) · VII.4 하이퍼파라미터 (개관)
Fourteenth week	특강 II: 다중분류·딥러닝 종합과 응용수학의 연계 · 소프트맥스와 교차엔트로피(다중분류) · 심층신경망과 역전파의 재조명, CNN 소개 (개관) · 현대 알고리즘·라이브러리 생태계와 실전 응용(PINN 포함) · 한 학기 수학과의 매핑 정리
Fifteenth week	종합 정리 및 기말고사
Sixteenth week	보강

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
			submission	

The second assignment	assignment		date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Capstone Design I		Course Number	0006666004		
Major / School Year	Dept. of Mechanical Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김태우	Grades/Lecture/ Practice	3	/ 2	/ 2
Phone Number		A weekday / class / lecture room	[08-106:수(3)] [08-511A:화(042)] [09-117A:(041)] [09-226:수(2)]			
Office hours			Medium of Instruction	ES		

[1] Outline / Purpose

캡스톤 디자인을 통해 제품 설계/개발 과정을 경험함

[2] Course Learning Outcomes

창의적 아이디어 설계 및 구현 능력을 배양함

[3] Class Delivery Method

이론(발표, 토론): 수요일 오전 10시-12시 (9-226, 8-106)

실습(조별활동): 화요일 오후 6-8시 (9-117A, 8-511A, 공작실습실 등)

OT 공지

일시: 9/2(수) 오전 10시

장소: 9호관 226호

* 필수 참석 / OT 미참석자는 무작위로 팀 배정

공휴일: 해당 주차에 보강 실시

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	20 %	0 %	60 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	20 %	0 %	0 %	0 %	0 %	80 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	OT, 조 배정, 제품 설계
Second week	제품 설계
Third week	제품 설계
Fourth week	제품 설계
Fifth week	제품 설계
Sixth week	제품 설계
Seventh week	제품 설계
Eighth week	중간발표
Ninth week	제품 제작
Tenth week	제품 제작
Eleventh week	제품 제작
Twelfth week	제품 제작
Thirteenth week	제품 제작
Fourteenth week	기말발표
Fifteenth week	컨테스트
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Mechanical Engineering Research	Course Number	0010896002
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 권재성	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number	A weekday / class / lecture room [08-105:월(01)] [08-502:수(2)(3)] [09-205A:월(02)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

기계공학연구에서 본 수업은 기계공학 대표 역학 중의 하나인 유체역학을 관련 연구를 통해 심화 이해할 수 있도록 설계되었다. 수업에서 수강생들은 전산유체역학 또는 유동계측기법을 공부하고, 이를 다양한 유체유동 현상의 분석에 적용함으로써 유체역학의 이론적 지식을 강화하고, 그와 동시에 유체역학에 대한 관심과 이해를 증진시킨다.

[2] Course Learning Outcomes

유체역학에서 다루지는 전문 용어들의 주요개념들을 이해하는 한편, 전산유체역학 또는 유동계측기법을 활용하여 유체역학 관련 연구들을 수행함으로써, 심도있는 결과 및 분석 도출을 통해 유동 해석과 계측 전문가로서의 자질과 역량을 배양할 수 있도록 한다.

[3] Class Delivery Method

- 본 강의는 원어강의이고, 대면 수업과 연구 주제에 따른 팀별 미팅을 통해 진행된다.
- 연구 주제는 기본적으로 논문을 포함한 다양한 참고 자료의 조사와 탐독을 통해 1차 선별되며, 강의 담당 교수와의 논의를 통해 최종 결정된다.
- 연구 수행에 소요되는 전산 유체역학 소프트웨어와 계측 장비들은 강의 담당 교수가 보유하고 있는 연구실 자산을 활용한다.
- 평가는 중간 및 최종 발표와 시험을 통해 실시되며, 대면방식으로 이뤄진다.
- 수업 공지사항들은 모두 이러닝 웹사이트(cyber.inu.ac.kr)에 게시되며, 별도의 알림이 없어도 수강생들의 주기적인 확인이 요구된다.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	30 %	30 %	30 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	SCIE 저널 발간 논문	Issued year	
(2)	Author		Publisher	컴솔	Textbook	COMSOL MULTIPHYSICS 가이드북 (1),(2)	Issued year	
(3)	Author		Publisher	북두출판사 그외	Textbook	Labview 프로그래밍	Issued year	

[Reference books]

(1)	Author		Publisher	태성에스엔이(TSNE)	Textbook	ANSYS CFD (Basic, Advanced)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	수업 오리엔테이션/ 연구 주제 선정을 위한 참고자료 조사(1)
Second week	연구 주제 선정을 위한 참고자료 조사(2)
Third week	연구 주제 선정을 위한 참고자료 조사(3)
Fourth week	참고자료 탐독을 통한 연구 주제의 기초 및 심화 이해(1)
Fifth week	참고자료 탐독을 통한 연구 주제의 기초 및 심화 이해(2)
Sixth week	참고자료 탐독을 통한 연구 주제의 기초 및 심화 이해(3)
Seventh week	전산유체역학 기법 또는 유동계측 기술을 활용한 팀별 연구 수행(1)
Eighth week	연구수행 결과 중간 발표
Ninth week	전산유체역학 기법 또는 유동계측 기술을 활용한 팀별 연구 수행(2)
Tenth week	전산유체역학 기법 또는 유동계측 기술을 활용한 팀별 연구 수행(3)
Eleventh week	전산유체역학 기법 또는 유동계측 기술을 활용한 팀별 연구 수행(4)
Twelfth week	전산유체역학 기법 또는 유동계측 기술을 활용한 팀별 연구 수행(5)
Thirteenth week	전산유체역학 기법 또는 유동계측 기술을 활용한 팀별 연구 수행(6)
Fourteenth week	연구수행 결과 최종 발표
Fifteenth week	기말 시험
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Soft Fabrication		Course Number	0012356001			
Major / School Year	Dept. of Mechanical Engineering	/ 3	completion division /Grade evaluation	/			
Department/Professor	Dept. of Mechanical Engineering	/ 이강주	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[08-272:월(4-5A)] [09-226:목(5B-6)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Control Engineering 1	Course Number	0011894001
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[09-226:월(2B-3), 화(4-5A)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

This course deals with modern control theories and many practical applications in mechanical systems, electrical systems and chemical systems and so on. The object of this course is to give students the capability of designing acceptable controllers for various control systems.

[2] Course Learning Outcomes

1. To derive mathematical modellings from various physical systems.
2. To learn design and analysis theories for control systems.
3. To learn and practice control system design with MATLAB.

[3] Class Delivery Method

Lectures for understanding of basic theories and practical applications.
Sequential design examples for understanding the control system process using MATLAB.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	0 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 30%

Attendance: 20%

Assignment: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Richard C. Dorf, Robert H. Bishop	Publisher	Pearson	Textbook	Modern Control Systems , 14th Ed.	Issued year	2022
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Ogata	Publisher	Pearson	Textbook	Modern Control Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Chapter 1. Introduction to Control Systems.
Second week	Chapter 2. Mathematical Models of Systems
Third week	Chapter 2. Mathematical Models of Systems (Continued)
Fourth week	Chapter 2. Mathematical Models of Systems (Continued)
Fifth week	Chapter 3. State Variable Models
Sixth week	Chapter 3. State Variable Models (Continued)
Seventh week	Midterm Exam
Eighth week	Chapter 4. Feedback Control System Characteristics
Ninth week	Chapter 4. Feedback Control System Characteristics (Continued)
Tenth week	Chapter 5. The Performance of Feedback Control Systems
Eleventh week	Chapter 5. The Performance of Feedback Control Systems (Continued)
Twelfth week	Chapter 6. The Stability of Linear Feedback Systems
Thirteenth week	Chapter 7. The Root Locus Method
Fourteenth week	Chapter 7. The Root Locus Method (Continued)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Control Engineering 1	Course Number	0011894004
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김영진	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-101:화(3)(4)] [08-272:토(4)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Control Engineering 1	Course Number	0011894003
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김영진	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-386:월(2)(3),토(3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Control Engineering 1	Course Number	0011894002
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[09-226:월(5B-6), 화(8B-9)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

This course deals with modern control theories and many practical applications in mechanical systems, electrical systems and chemical systems and so on. The object of this course is to give students the capability of designing acceptable controllers for various control systems.

[2] Course Learning Outcomes

1. To derive mathematical modellings from various physical systems.
2. To learn design and analysis theories for control systems.
3. To learn and practice control system design with MATLAB.

[3] Class Delivery Method

Lectures for understanding of basic theories and practical applications.
Sequential design examples for understanding the control system process using MATLAB.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	0 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 30%

Attendance: 20%

Assignment: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Richard C. Dorf, Robert H. Bishop	Publisher	Pearson	Textbook	Modern Control Systems , 14th Ed.	Issued year	2022
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Ogata	Publisher	Pearson	Textbook	Modern Control Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Chapter 1. Introduction to Control Systems.
Second week	Chapter 2. Mathematical Models of Systems
Third week	Chapter 2. Mathematical Models of Systems (Continued)
Fourth week	Chapter 2. Mathematical Models of Systems (Continued)
Fifth week	Chapter 3. State Variable Models
Sixth week	Chapter 3. State Variable Models (Continued)
Seventh week	Midterm Exam
Eighth week	Chapter 4. Feedback Control System Characteristics
Ninth week	Chapter 4. Feedback Control System Characteristics (Continued)
Tenth week	Chapter 5. The Performance of Feedback Control Systems
Eleventh week	Chapter 5. The Performance of Feedback Control Systems (Continued)
Twelfth week	Chapter 6. The Stability of Linear Feedback Systems
Thirteenth week	Chapter 7. The Root Locus Method
Fourteenth week	Chapter 7. The Root Locus Method (Continued)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Materials Processing and Behavior		Course Number	0009436001		
Major / School Year	Dept. of Mechanical Engineering	/ 4	completion division / Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 전태성	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-101:월(5)(6)] [08-386:수(9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course aims to study the processing and the associated behaviour of materials which have been widely used in diverse industries including aerospace, automobile, steel and/or ship building. In particular, this course covers the fundamental and practical understanding of metallic materials with their processing (e.g., welding/joining, metal 3D printing, hot press forming, metal forming) and mechanical/materials behaviour (e.g., elastic and plastic deformation, fatigue/fracture/creep, variation of stresses and microstructure).

[2] Course Learning Outcomes

1. To understand the fundamental knowledge of mechanical behaviour of metallic materials
2. To convey a theoretical background to examine the property and processing of metallic materials
3. To provide the characteristic and applications of diverse metallic materials and processing

[3] Class Delivery Method

The course materials will be provided using ppt/pdf slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 30%

Attendance: 20%

Report: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	S. Kalpakjian and R. Schmid	Publisher	SungJin Media	Textbook	Manufacturing Processes for Engineering Materials	Issued year	2008
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	W.F. Hosford	Publisher	Cambridge University Press	Textbook	Mechanical Behavior of Materials (2nd)	Issued year	2010
(2)	Author	G.E. Dieter	Publisher	McGraw-Hill	Textbook	Mechanical Metallurgy	Issued year	1988
(3)	Author	W.D. Callister and D.G. Rethwisch	Publisher	Wiley	Textbook	Materials Science and Engineering 9/E	Issued year	2014
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals of the Mechanical Behaviour of Materials (I)
Third week	Fundamentals of the Mechanical Behaviour of Materials (II)
Fourth week	Structure and Manufacturing Properties of Metals (I)
Fifth week	Structure and Manufacturing Properties of Metals (II)
Sixth week	Fracture Mechanics
Seventh week	Creep and Stress Rupture
Eighth week	Fatigue
Ninth week	Midterm Exam
Tenth week	Tribology and Metals
Eleventh week	Heat treatment and Metals
Twelfth week	Bulk Deformation/Sheet–Metal Forming Process and Metals
Thirteenth week	Joining Process and Metals
Fourteenth week	Additive Manufacturing and Metals
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENERGY CONVERSION TO ELECTRIC POWER		Course Number	0006716001		
Major / School Year	Dept. of Electrical Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electrical Engineering	/ 김준동	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[08-438:월(8)(9),화(1)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This class offers students a definitive overview of electronic circuits and devices.

[2] Course Learning Outcomes

This course will provide the essential understanding of semiconductor devices and their characteristics with characterizations. The followings will be studied:

1. Intermediate streaming of electrical circuits to semiconductor sciences.
2. Designs of circuits with materials
3. Practical applications

[3] Class Delivery Method

- Lectures and special seminars
- Theory and Experimental works

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	Mcgraw Hill	Textbook	Electronics Principles	Issued year	
(2)	Author		Publisher		Textbook	To be assigned	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to this course
Second week	Semiconductors
Third week	Diode theory
Fourth week	Special diodes
Fifth week	Bipolar Transistors
Sixth week	Transistor Fundamentals
Seventh week	Transistor operation
Eighth week	Special topics
Ninth week	Mid-term exam
Tenth week	Special topics
Eleventh week	AC Models
Twelfth week	Voltage Amplifiers
Thirteenth week	MOSFETs
Fourteenth week	MOSFETs
Fifteenth week	Special Topics
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ELECTRICAL SEMICONDUCTOR ENGINEERING		Course Number	0006708001		
Major / School Year	Dept. of Electrical Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electrical Engineering	/ 윤주형	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358438	A weekday / class / lecture room	[08-322:월(7-8A),수(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Introduce students to the new generation of energy-efficient power electronic devices and provide students the insight useful for understanding and analyzing those devices. Silicon power electronic devices are fast approaching their performance limits set by silicon's fundamental material properties. A new generation of semiconductor materials having a wider energy bandgap has emerged which makes energy-efficient electronic, especially power electronic devices possible. These devices are capable of drastic reduction of switching and conduction losses simultaneously as well as operation under higher temperatures, making power systems considerably smaller, lighter, cheaper and more robust.

[2] Course Learning Outcomes

Characteristics, fabrication, and application of power semiconductor devices, which may include p-i-n and Schottky diodes, insulated gate bipolar transistors, field effect transistors, and thyristors. Effect of semiconductor material, device structure, and current injection levels on device performance. Device drive requirements and power circuit interaction. Implementation of power devices using wide band gap semiconductors such as silicon carbide and gallium nitride.

[3] Class Delivery Method

Lecture 90%, Seminar 10

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	%	10 %	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	70 %	%	%	%	%	%

[4] Grading Policies

Midterm exam 30%, Final Exam 40%, Attendance 20%, HW 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Chenming C. Hu	Publisher	Prentice Hall	Textbook	Modern Semiconductor Devices for Integrated Circuits	Issued year	2009
(2)	Author	Chenming C. Hu	Publisher	한빛아카데미	Textbook	현대 반도체 소자공학	Issued year	2023
(3)	Author	Benda, Vaitezslav; Gowar, John; Grant, Duncan A. C	Publisher	John Wiley and Sons, Inc.	Textbook	Power Semiconductor Devices : Theory and Applications	Issued year	1999

[Reference books]

(1)	Author	Robert Pierret	Publisher	Addison Wesley	Textbook	Semiconductor Device Fundamentals	Issued year	2002
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – Semiconductors
Second week	Electrons and Holes in Semiconductors
Third week	Motion and Recombination of Electrons and Holes
Fourth week	Device Fabrication Technology
Fifth week	PN junction
Sixth week	Metal-Semiconductor junction
Seventh week	MOS capacitor
Eighth week	Midterm Exam
Ninth week	Diodes Thyristors
Tenth week	Bipolar transistors
Eleventh week	MOSFET
Twelfth week	MOSFET
Thirteenth week	IGBT
Fourteenth week	Drive requirements, thermal management, and protection
Fifteenth week	Drive requirements, thermal management, and protection
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Semiconductors and Energy in Nanotechnology	Course Number	0010902001
Major / School Year	Dept. of Electrical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[08-416:금(7-8A)(8B-9)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

This course introduces the operating principles, characteristics, and applications of fundamental semiconductor devices. Students will develop an understanding of charge transport, p-n junctions, and the physical mechanisms governing diodes, transistors, and optoelectronic devices. The course provides the foundation required for advanced studies in semiconductor electronics, photonics, and integrated circuit technologies.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Explain the fundamental properties of semiconductor materials and carrier transport mechanisms.
2. Describe the operation and electrical characteristics of p-n junction diodes, BJTs, and MOSFETs.
3. Analyse the current-voltage behaviour of semiconductor devices using semiconductor physics.
4. Interpret the operation of optoelectronic devices such as LEDs, photodiodes, and solar cells.
5. Solve basic device-related problems and evaluate device performance under different operating conditions.
6. Apply semiconductor device concepts to practical electronic and optoelectronic applications.

[3] Class Delivery Method

Whiteboard + PPT presentation

Problem-solving sessions and numerical examples.

Conceptual discussions and semiconductor device simulations where applicable.

Analysis of characteristic curves and practical device behaviour.

Classroom discussions, quizzes, and formative assessments to reinforce learning.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	60 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Donald A. Neamen	Publisher	McGraw-Hill higher education	Textbook	Semiconductor Physics and Devices: Basic Principles: Fourth Edition	Issued year	
(2)	Author	Yaduvir Singh	Publisher	IK International Pvt.Ltd.	Textbook	Semiconductor Devices	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Ben G. Steetman & Sanjay Kumar Banerjee	Publisher	PEARSON	Textbook	Solid State Electronic Devices	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to coursework (Book: Semiconductor Physics and Devices) Part II– Fundamental Semiconductor Devices
Second week	Chapter 7: The p–n Junction – Junction formation, depletion region, equilibrium. p–n Junction under forward and reverse bias; I–V characteristics. Junction capacitance, reverse breakdown, tunnel diodes, applications
Third week	Chapter 8: p–n Junction Diode – Diode equation, I–V characteristics, diode models
Fourth week	Diode applications: rectifiers, switching, clipping and clamping circuits
Fifth week	Metal–Semiconductor Contacts – Schottky barriers, Ohmic contacts, heterojunctions
Sixth week	MOSFET – Device structure, operation, I–V characteristics
Seventh week	MOSFET capacitance, frequency response, scaling and CMOS concepts
Eighth week	Midterm Exam
Ninth week	MESFET – Device physics, characteristics and equivalent circuits
Tenth week	Bipolar Junction Transistor (BJT) – Structure, operation and current gain
Eleventh week	BJT characteristics, high–frequency response, equivalent circuits
Twelfth week	High Electron Mobility Transistor (HEMT) – Structure, operation and device characteristics
Thirteenth week	Optical Devices – Optical absorption, LEDs, laser diodes
Fourteenth week	Photodetectors (PIN, APD, MSM, photoconductors), solar cells and photovoltaic devices
Fifteenth week	Optical device applications, comprehensive review, student presentations/Q&A, Final examination review
Sixteenth week	Final Examination

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Big Data Engineering		Course Number	0010080001		
Major / School Year	Dept. of Electronics Engineering	/ 4	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 김훈	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-326:화(1-2A),금(1-2A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

With the evolution of communication networks such as IoT and 5G and the proliferation of Internet services, technical and academic demands for collecting and using information are getting increasing. As a result, the demand for technology in the field of effectively handling and utilizing big data has also been increasing industrially and socially. This course overallly covers AI techniques, data science, and their applications.

This course deals with the academic and technical content required in each steps of collecting, analyzing, visualizing, and using big data. Students will learn the basics and tools and methodologies necessary for the collection of big data, data processing theories and techniques for refining, storing and analyzing them, data analysis theories for problem modeling and solving, and understanding data through visualization. Students will also experience some tools to apply the suggested theories and solutions, and expand their understanding depth through assignment submission and presentation.

[2] Course Learning Outcomes

We will learn basic concepts and usage of big data engineering, and study skills of AI techniques, data science, and their applications.

[3] Class Delivery Method

Lecture, quiz, hw, practices, etc.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Course Introduction
Second week	Data Analysis Basics
Third week	AI techniques(1/2)
Fourth week	AI techniques(2/2)
Fifth week	Data processing(1/2)
Sixth week	Data processing(2/2)
Seventh week	Quiz(1)
Eighth week	AI and Data Processing(Review)
Ninth week	Data Visualization(1/2)
Tenth week	Data Visualization(2/2)
Eleventh week	Project(Problem) Assignment
Twelfth week	Project Report and Review(1)
Thirteenth week	Project Report and Review(2)
Fourteenth week	Project Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Big Data Engineering		Course Number	0010080002		
Major / School Year	Dept. of Electronics Engineering	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 김훈	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-326:화(2B-3),금(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

With the evolution of communication networks such as IoT and 5G and the proliferation of Internet services, technical and academic demands for collecting and using information are getting increasing. As a result, the demand for technology in the field of effectively handling and utilizing big data has also been increasing industrially and socially. This course overallly covers AI techniques, data science, and their applications.

This course deals with the academic and technical content required in each steps of collecting, analyzing, visualizing, and using big data. Students will learn the basics and tools and methodologies necessary for the collection of big data, data processing theories and techniques for refining, storing and analyzing them, data analysis theories for problem modeling and solving, and understanding data through visualization. Students will also experience some tools to apply the suggested theories and solutions, and expand their understanding depth through assignment submission and presentation.

[2] Course Learning Outcomes

We will learn basic concepts and usage of big data engineering, and study skills of AI techniques, data science, and their applications.

[3] Class Delivery Method

Lecture, quiz, hw, practices, etc.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Course Introduction
Second week	Data Analysis Basics
Third week	AI techniques(1/2)
Fourth week	AI techniques(2/2)
Fifth week	Data processing(1/2)
Sixth week	Data processing(2/2)
Seventh week	Quiz(1)
Eighth week	AI and Data Processing(Review)
Ninth week	Data Visualization(1/2)
Tenth week	Data Visualization(2/2)
Eleventh week	Project(Problem) Assignment
Twelfth week	Project Report and Review(1)
Thirteenth week	Project Report and Review(2)
Fourteenth week	Project Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	COMPUTER PROGRAMMING		Course Number	EP01004001		
Major / School Year	Dept. of Electronics Engineering	/ 1	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 조환호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-326:월(7-8A),수(8B-9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

The goal of this course is to help students acquire fundamental Python syntax and develop problem-solving skills through programming. Students will learn key concepts such as variables, data types, control structures, functions, data structures, and object-oriented programming.

Through hands-on practice with basic algorithms (e.g., sorting, searching), file I/O, exception handling, array operations, and data visualization, they will build practical coding skills.

Essential libraries like NumPy and Matplotlib will also be introduced to prepare students for future courses in AI and deep learning

[2] Course Learning Outcomes

Students will learn the basic concepts and syntax of Python and gain practical experience with functions, data structures, and object-oriented programming.

They will develop the ability to solve problems using algorithms, file I/O, exception handling, and essential libraries such as NumPy and Matplotlib.

This course lays a strong foundation for advanced subjects like artificial intelligence and data science.

[3] Class Delivery Method

Theory + Programming Practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	자체제작	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Downey, Allen B.	Publisher	O'REILLY	Textbook	Think python (3ed)	Issued year	
(2)	Author		Publisher	한빛아카데미	Textbook	Python for beginner	Issued year	
(3)	Author		Publisher	CRC Press	Textbook	Introduction to Engineering and Scientific Computing with Python	Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class introduction Introduction to python – compiler language vs interpreter language, python's characteristics Environment setting guide – Anaconda, Jupyter Notebook, VSCode, Colab – Setting environment, package installation (conda, pip)
Second week	Variables – assignment, variable, naming rule, statement, comment Data Types – int, float, str, bool etc. – type, type casting Operators – basic arithmetic, logical operators – precedence
Third week	Input/Output & String Formatting – input(), print(), f-string, % formatting – string methods (split, join, replace etc)
Fourth week	Flow of control 1 – if, elif, else – nested conditionals – conditional expressions (ternary operator)
Fifth week	Flow of control 2 – for, while statement – Loop mechanics, ranges, break, continue – Nested loop
Sixth week	Data Structures I – List – List characteristics, mutability, deep & shallow copy – Indexing, slicing – list methods (append, extend, pop, remove etc), list input/output – loop using list, list comprehension, multi-dimensional lists
Seventh week	Data Structures II – Tuple, Set, Dictionary – basics on Tuple, set, dictionary – iteration, operations – comparisons between containers
Eighth week	Mid-term
Ninth week	Functions, Scope & Lambda – Defining/calling functions – input & return values – Recursion – local/global variable – Lambda function – import, definition of module, library
Tenth week	Python basic libraries – os, sys, math, collections etc. File I/O – file read/write (open(), with) Error handling – type of error – try, except
Eleventh week	Class – Defining classes, object, methods, attributes – special methods (__init__, etc) – inheritance, class override
Twelfth week	Sorting – Selection, bubble, insertion sort – python sort module Basic Data Structures – Stack, Queue, Tree – Search algorithm (BFS, DFS)
Thirteenth week	NumPy Basics – Creating arrays, indexing/slicing, shape, broadcasting, array operations – numpy aggregation functions Pandas Introduction
Fourteenth week	Matplotlib Basics – plot(), labels, legends, subplots, data visualization fundamentals (plot, histogram, barplot etc)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

	assignment		submission date	

The first assignment	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	PHYSICAL ELECTRONICS		Course Number	EPC6048001		
Major / School Year	Dept. of Electronics Engineering	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 정은교	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[08-321:월(8B-9), 목(8B-9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is intended to provide fundamental knowledge for physical properties of semiconductors, required to understand operation of semiconductor devices and modeling of I-V characteristics that students will learn next year. Topics include atomic models, crystal structures, energy band, electron transport mechanism, basic semiconductor properties, recombination-generation process, equations of state describing semiconductor devices.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve following:

- an understanding of fundamental concepts of physical properties of semiconductors.
- an ability to explain how quantum mechanics plays a role in determining energy band of semiconductors.
- an ability to apply equations of state to describing carrier transport in semiconductors.

[3] Class Delivery Method

Lecture, Exam, and QnA

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Ben G. Streetman	Publisher	Prentice Hall	Textbook	Solid state electronic device	Issued year	1980
(2)	Author	Donald A. Neamen	Publisher	Irwin	Textbook	Semiconductor physics & devices	Issued year	1997
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Advanced semiconductor fundamentals	Issued year	2003
(2)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Semiconductor Device Fundamentals	Issued year	1996
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction The crystal structure of solids (1)
Second week	The crystal structure of solids (2) The crystal structure of solids (review/quiz)
Third week	Introduction to quantum mechanics (1) Introduction to quantum mechanics (2)
Fourth week	Introduction to quantum mechanics (3) Introduction to quantum mechanics (4)
Fifth week	Introduction to quantum mechanics (review/quiz) Introduction to the quantum theory (1)
Sixth week	Introduction to the quantum theory (2) Introduction to the quantum theory (3)
Seventh week	Introduction to the quantum theory (4) Introduction to the quantum theory (review/quiz)
Eighth week	Midterm exam
Ninth week	The semiconductor in equilibrium (1) The semiconductor in equilibrium (2)
Tenth week	The semiconductor in equilibrium (3) The semiconductor in equilibrium (review/quiz)
Eleventh week	Carrier transport phenomena (1) Carrier transport phenomena (2)
Twelfth week	Carrier transport phenomena (3) Carrier transport phenomena (review/quiz)
Thirteenth week	Nonequilibrium excess carriers in semiconductors (1) Nonequilibrium excess carriers in semiconductors (2)
Fourteenth week	Nonequilibrium excess carriers in semiconductors (3) Nonequilibrium excess carriers in semiconductors (review/quiz)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	PHYSICAL ELECTRONICS		Course Number	EPC6048002		
Major / School Year	Dept. of Electronics Engineering	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 정은교	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[08-419:화(2B-3), 목(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is intended to provide fundamental knowledge for physical properties of semiconductors, required to understand operation of semiconductor devices and modeling of I-V characteristics that students will learn next year. Topics include atomic models, crystal structures, energy band, electron transport mechanism, basic semiconductor properties, recombination-generation process, equations of state describing semiconductor devices.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve following:

- an understanding of fundamental concepts of physical properties of semiconductors.
- an ability to explain how quantum mechanics plays a role in determining energy band of semiconductors.
- an ability to apply equations of state to describing carrier transport in semiconductors.

[3] Class Delivery Method

Lecture, Exam, and QnA

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Ben G. Streetman	Publisher	Prentice Hall	Textbook	Solid state electronic device	Issued year	1980
(2)	Author	Donald A. Neamen	Publisher	Irwin	Textbook	Semiconductor physics & devices	Issued year	1997
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Advanced semiconductor fundamentals	Issued year	2003
(2)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Semiconductor Device Fundamentals	Issued year	1996
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction The crystal structure of solids (1)
Second week	The crystal structure of solids (2) The crystal structure of solids (review/quiz)
Third week	Introduction to quantum mechanics (1) Introduction to quantum mechanics (2)
Fourth week	Introduction to quantum mechanics (3) Introduction to quantum mechanics (4)
Fifth week	Introduction to quantum mechanics (review/quiz) Introduction to the quantum theory (1)
Sixth week	Introduction to the quantum theory (2) Introduction to the quantum theory (3)
Seventh week	Introduction to the quantum theory (4) Introduction to the quantum theory (review/quiz)
Eighth week	Midterm exam
Ninth week	The semiconductor in equilibrium (1) The semiconductor in equilibrium (2)
Tenth week	The semiconductor in equilibrium (3) The semiconductor in equilibrium (review/quiz)
Eleventh week	Carrier transport phenomena (1) Carrier transport phenomena (2)
Twelfth week	Carrier transport phenomena (3) Carrier transport phenomena (review/quiz)
Thirteenth week	Nonequilibrium excess carriers in semiconductors (1) Nonequilibrium excess carriers in semiconductors (2)
Fourteenth week	Nonequilibrium excess carriers in semiconductors (3) Nonequilibrium excess carriers in semiconductors (review/quiz)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ELECTRONIC CIRCUIT DESIGN		Course Number	EPC6052001		
Major / School Year	Dept. of Electronics Engineering	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 박창주	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-518:월(2B-3),수(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

1. MOS Devices and CMOS Amplifiers: study the operating principles, models, biasing methods, and basic amplifier configurations of transistors to establish a foundation for CMOS circuit design.
2. Analog Integrated-Circuit Building Blocks: analyze operational-amplifier circuits, current mirrors, cascode stages, and differential amplifiers to understand how practical analog integrated circuits are constructed.
3. Frequency Response, Feedback, and Stability: examine the effects of device capacitances, poles, zeros, feedback, and frequency compensation to design amplifiers with sufficient bandwidth and stable operation.

[2] Course Learning Outcomes

1. Explain MOSFET operation and select appropriate large-signal and small-signal models for circuit analysis.
2. Analyze and design common-source, common-gate, and differential amplifiers, and source-follower, current-mirror, and cascode circuits.
3. Determine the frequency response, poles, bandwidth, loop gain, phase margin, and stability of analog circuits.

[3] Class Delivery Method

1. Classes will be conducted primarily in person, on campus.
2. If make-up classes are required due to class cancellations, recorded video lectures will be uploaded to the online LMS.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	100 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- (1) Attendance 20%
- (2) Midterm Exam 30%
- (3) Final Exam 50%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Behzad Razavi	Publisher	John Wiley & Sons, Inc.	Textbook	Fundamentals of Microelectronics, 2nd Edition	Issued year	2014
(2)	Author	Adel S. Sedra et al.	Publisher	Oxford University Press	Textbook	Microelectronic Circuits, 8th Edition	Issued year	2020
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Overview Review of Basic Circuit Theory
Second week	Operational Amplifier as a Black Box
Third week	Review of Transistors CMOS Amplifiers
Fourth week	CMOS Amplifiers
Fifth week	Cascode and Current Mirrors
Sixth week	Differential Amplifiers
Seventh week	Differential Amplifiers
Eighth week	Midterm Exam
Ninth week	Frequency Response
Tenth week	Frequency Response
Eleventh week	Feedback
Twelfth week	Feedback
Thirteenth week	Amplifier Design Examples
Fourteenth week	Amplifier Design Examples
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ELECTRONIC CIRCUIT DESIGN		Course Number	EPC6052004		
Major / School Year	Dept. of Electronics Engineering	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 박창주	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-518:화(4-5A),목(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

1. MOS Devices and CMOS Amplifiers: study the operating principles, models, biasing methods, and basic amplifier configurations of transistors to establish a foundation for CMOS circuit design.
2. Analog Integrated-Circuit Building Blocks: analyze operational-amplifier circuits, current mirrors, cascode stages, and differential amplifiers to understand how practical analog integrated circuits are constructed.
3. Frequency Response, Feedback, and Stability: examine the effects of device capacitances, poles, zeros, feedback, and frequency compensation to design amplifiers with sufficient bandwidth and stable operation.

[2] Course Learning Outcomes

1. Explain MOSFET operation and select appropriate large-signal and small-signal models for circuit analysis.
2. Analyze and design common-source, common-gate, and differential amplifiers, and source-follower, current-mirror, and cascode circuits.
3. Determine the frequency response, poles, bandwidth, loop gain, phase margin, and stability of analog circuits.

[3] Class Delivery Method

1. Classes will be conducted primarily in person, on campus.
2. If make-up classes are required due to class cancellations, recorded video lectures will be uploaded to the online LMS.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	100 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- (1) Attendance 20%
- (2) Midterm Exam 30%
- (3) Final Exam 50%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Behzad Razavi	Publisher	John Wiley & Sons, Inc.	Textbook	Fundamentals of Microelectronics, 2nd Edition	Issued year	2014
(2)	Author	Adel S. Sedra et al.	Publisher	Oxford University Press	Textbook	Microelectronic Circuits, 8th Edition	Issued year	2020
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Overview Review of Basic Circuit Theory
Second week	Operational Amplifier as a Black Box
Third week	Review of Transistors CMOS Amplifiers
Fourth week	CMOS Amplifiers
Fifth week	Cascode and Current Mirrors
Sixth week	Differential Amplifiers
Seventh week	Differential Amplifiers
Eighth week	Midterm Exam
Ninth week	Frequency Response
Tenth week	Frequency Response
Eleventh week	Feedback
Twelfth week	Feedback
Thirteenth week	Amplifier Design Examples
Fourteenth week	Amplifier Design Examples
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ELECTRONIC CIRCUIT DESIGN		Course Number	EPC6052003		
Major / School Year	Dept. of Electronics Engineering	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 박창주	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-518:화(2B-3), 목(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

1. MOS Devices and CMOS Amplifiers: study the operating principles, models, biasing methods, and basic amplifier configurations of transistors to establish a foundation for CMOS circuit design.
2. Analog Integrated-Circuit Building Blocks: analyze operational-amplifier circuits, current mirrors, cascode stages, and differential amplifiers to understand how practical analog integrated circuits are constructed.
3. Frequency Response, Feedback, and Stability: examine the effects of device capacitances, poles, zeros, feedback, and frequency compensation to design amplifiers with sufficient bandwidth and stable operation.

[2] Course Learning Outcomes

1. Explain MOSFET operation and select appropriate large-signal and small-signal models for circuit analysis.
2. Analyze and design common-source, common-gate, and differential amplifiers, and source-follower, current-mirror, and cascode circuits.
3. Determine the frequency response, poles, bandwidth, loop gain, phase margin, and stability of analog circuits.

[3] Class Delivery Method

1. Classes will be conducted primarily in person, on campus.
2. If make-up classes are required due to class cancellations, recorded video lectures will be uploaded to the online LMS.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	100 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- (1) Attendance 20%
- (2) Midterm Exam 30%
- (3) Final Exam 50%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Behzad Razavi	Publisher	John Wiley & Sons, Inc.	Textbook	Fundamentals of Microelectronics, 2nd Edition	Issued year	2014
(2)	Author	Adel S. Sedra et al.	Publisher	Oxford University Press	Textbook	Microelectronic Circuits, 8th Edition	Issued year	2020
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Overview Review of Basic Circuit Theory
Second week	Operational Amplifier as a Black Box
Third week	Review of Transistors CMOS Amplifiers
Fourth week	CMOS Amplifiers
Fifth week	Cascode and Current Mirrors
Sixth week	Differential Amplifiers
Seventh week	Differential Amplifiers
Eighth week	Midterm Exam
Ninth week	Frequency Response
Tenth week	Frequency Response
Eleventh week	Feedback
Twelfth week	Feedback
Thirteenth week	Amplifier Design Examples
Fourteenth week	Amplifier Design Examples
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ELECTRONIC CIRCUIT DESIGN		Course Number	EPC6052002		
Major / School Year	Dept. of Electronics Engineering	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 박창주	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-518:월(4-5A),수(4-5A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

1. MOS Devices and CMOS Amplifiers: study the operating principles, models, biasing methods, and basic amplifier configurations of transistors to establish a foundation for CMOS circuit design.
2. Analog Integrated-Circuit Building Blocks: analyze operational-amplifier circuits, current mirrors, cascode stages, and differential amplifiers to understand how practical analog integrated circuits are constructed.
3. Frequency Response, Feedback, and Stability: examine the effects of device capacitances, poles, zeros, feedback, and frequency compensation to design amplifiers with sufficient bandwidth and stable operation.

[2] Course Learning Outcomes

1. Explain MOSFET operation and select appropriate large-signal and small-signal models for circuit analysis.
2. Analyze and design common-source, common-gate, and differential amplifiers, and source-follower, current-mirror, and cascode circuits.
3. Determine the frequency response, poles, bandwidth, loop gain, phase margin, and stability of analog circuits.

[3] Class Delivery Method

1. Classes will be conducted primarily in person, on campus.
2. If make-up classes are required due to class cancellations, recorded video lectures will be uploaded to the online LMS.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	100 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- (1) Attendance 20%
- (2) Midterm Exam 30%
- (3) Final Exam 50%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Behzad Razavi	Publisher	John Wiley & Sons, Inc.	Textbook	Fundamentals of Microelectronics, 2nd Edition	Issued year	2014
(2)	Author	Adel S. Sedra et al.	Publisher	Oxford University Press	Textbook	Microelectronic Circuits, 8th Edition	Issued year	2020
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Overview Review of Basic Circuit Theory
Second week	Operational Amplifier as a Black Box
Third week	Review of Transistors CMOS Amplifiers
Fourth week	CMOS Amplifiers
Fifth week	Cascode and Current Mirrors
Sixth week	Differential Amplifiers
Seventh week	Differential Amplifiers
Eighth week	Midterm Exam
Ninth week	Frequency Response
Tenth week	Frequency Response
Eleventh week	Feedback
Twelfth week	Feedback
Thirteenth week	Amplifier Design Examples
Fourteenth week	Amplifier Design Examples
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Deep Learning	Course Number	0008865001
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 조환호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[08-325:월(4-5A),수(4-5A)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

In this lecture, we will learn the fundamental elements and training methods of deep learning architecture. Additionally, we will explore techniques and models for various vision tasks. The course will also introduce the basic concepts of natural language processing and the recently active research areas of transformers and foundation models. After learning the concepts, we will have hands-on practice by implementing the basic elements using TensorFlow.

Prerequisites: Python, Statistics, Random process, Linear algebra, Algorithm, Artificial intelligence

[2] Course Learning Outcomes

To develop the ability to select or design deep learning architectures suited to the type and characteristics of data, and to choose appropriate training strategies that align with modeling objectives and implement them effectively.

[3] Class Delivery Method

Theory + Practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	자체제작	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Raschka, Sebastian	Publisher		Textbook	Python Machine Learning : Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow	Issued year	
(2)	Author	Christopher M. Bishop	Publisher		Textbook	Pattern Recognition and Machine Learning	Issued year	
(3)	Author	Ian Goodfellow, Yoshua Bengio and Aaron Courville	Publisher		Textbook	Deep learning	Issued year	
(4)	Author		Publisher		Textbook	Various research papers related to the lecture topics	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – History and Evolution of Deep Learning – Differences between Machine Learning and Deep Learning – Applications of Deep Learning – Deep learning framework: Tensorflow vs Pytorch
Second week	Basic element of Neural Networks – Fundamentals of neural networks – Perceptron – Multi-layer perceptron (Fully connected layer)
Third week	Basic element of Neural Networks – Multi-layer perceptron (Cont'd) – Activation functions – Forward propagation – Exercise: Build MLP using tensorflow
Fourth week	Training Neural Networks – Information theory – Loss functions
Fifth week	Training Neural Networks – Gradient descent – Error backpropagation – Performance evaluation – Exercise: Hand-writing classification
Sixth week	Regularization techniques – Dropout – Data augmentation – Batch normalization – Model check point, early stopping
Seventh week	Optimization algorithms – Limitation of vanilla Gradient Descent – Stochastic Gradient Descent – Momentum – RMSprop – Adam optimizer
Eighth week	Midterm
Ninth week	Convolutional Neural networks – Introduction to image data and vision tasks (Representation learning, Classification, Regression, Image captioning, detection, segmentation etc) – Image processing basics – Convolution operation
Tenth week	Convolutional Neural networks – Basic elements of CNN – Convolutional layers – Pooling
Eleventh week	Convolutional Neural networks – CNN Architectures (ResNet, DenseNet etc) – CNN for object detection and segmentation (YOLO, U-Net, ResUNet) – Benchmark datasets for vision tasks – Transfer learning
Twelfth week	Autoencoder & Unet Generative Models – Variational Autoencoder (VAE) – Generative Adversarial Network (GAN)
Thirteenth week	Natural Language Processing (NLP) – Concept of Language modeling – Word Embeddings (BoW, Word2Vec) – Sequence-to-Sequence Models – Attention Mechanism – Transformer Recurrent Neural Networks – Introduction to serial data modeling – Markov chain, Hidden Markov model – Structure of RNN – Backpropagation – Long Short-Term Memory (LSTM)
Fourteenth week	Advanced learning algorithms – Vision transformer – Foundation model – Self-Supervised Learning – Self-Supervised Contrastive Learning – Supervised Contrastive Learning
Fifteenth week	Final exam

Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Deep Learning	Course Number	0008865002
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 조환호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[08-325:월(2B-3),수(2B-3)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

In this lecture, we will learn the fundamental elements and training methods of deep learning architecture. Additionally, we will explore techniques and models for various vision tasks. The course will also introduce the basic concepts of natural language processing and the recently active research areas of transformers and foundation models. After learning the concepts, we will have hands-on practice by implementing the basic elements using TensorFlow.

Prerequisites: Python, Statistics, Random process, Linear algebra, Algorithm, Artificial intelligence

[2] Course Learning Outcomes

To develop the ability to select or design deep learning architectures suited to the type and characteristics of data, and to choose appropriate training strategies that align with modeling objectives and implement them effectively.

[3] Class Delivery Method

Theory + Practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	자체제작	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Raschka, Sebastian	Publisher		Textbook	Python Machine Learning : Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow	Issued year	
(2)	Author	Christopher M. Bishop	Publisher		Textbook	Pattern Recognition and Machine Learning	Issued year	
(3)	Author	Ian Goodfellow, Yoshua Bengio and Aaron Courville	Publisher		Textbook	Deep learning	Issued year	
(4)	Author		Publisher		Textbook	Various research papers related to the lecture topics	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – History and Evolution of Deep Learning – Differences between Machine Learning and Deep Learning – Applications of Deep Learning – Deep learning framework: Tensorflow vs Pytorch
Second week	Basic element of Neural Networks – Fundamentals of neural networks – Perceptron – Multi-layer perceptron (Fully connected layer)
Third week	Basic element of Neural Networks – Multi-layer perceptron (Cont'd) – Activation functions – Forward propagation – Exercise: Build MLP using tensorflow
Fourth week	Training Neural Networks – Information theory – Loss functions
Fifth week	Training Neural Networks – Gradient descent – Error backpropagation – Performance evaluation – Exercise: Hand-writing classification
Sixth week	Regularization techniques – Dropout – Data augmentation – Batch normalization – Model check point, early stopping
Seventh week	Optimization algorithms – Limitation of vanilla Gradient Descent – Stochastic Gradient Descent – Momentum – RMSprop – Adam optimizer
Eighth week	Midterm
Ninth week	Convolutional Neural networks – Introduction to image data and vision tasks (Representation learning, Classification, Regression, Image captioning, detection, segmentation etc) – Image processing basics – Convolution operation
Tenth week	Convolutional Neural networks – Basic elements of CNN – Convolutional layers – Pooling
Eleventh week	Convolutional Neural networks – CNN Architectures (ResNet, DenseNet etc) – CNN for object detection and segmentation (YOLO, U-Net, ResUNet) – Benchmark datasets for vision tasks – Transfer learning
Twelfth week	Autoencoder & Unet Generative Models – Variational Autoencoder (VAE) – Generative Adversarial Network (GAN)
Thirteenth week	Natural Language Processing (NLP) – Concept of Language modeling – Word Embeddings (BoW, Word2Vec) – Sequence-to-Sequence Models – Attention Mechanism – Transformer Recurrent Neural Networks – Introduction to serial data modeling – Markov chain, Hidden Markov model – Structure of RNN – Backpropagation – Long Short-Term Memory (LSTM)
Fourteenth week	Advanced learning algorithms – Vision transformer – Foundation model – Self-Supervised Learning – Self-Supervised Contrastive Learning – Supervised Contrastive Learning
Fifteenth week	Final exam

Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	DIGITAL COMMUNICATION		Course Number	EPC6054001		
Major / School Year	Major in Electronics Engineering	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 윤석현	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-433:수(7-8A)] [08-518:월(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

이 강의는 디지털 통신 시스템의 이론과 설계에 대한 기초를 제공하며, 특히 디지털 변/복조 방식, 수신기 설계, 확률적 모델링에 중점을 둡니다. 다루는 내용으로는 PSK와 QAM과 같은 변조 기법, Constellation Diagram, MAP와 MLE 검출, 최적 수신기 구조, BER와 SER 분석, 채널 잡음 모델링, OFDM, 채널 코딩이 포함됩니다. 또한, 가우시안 잡음, 통계적 신호 모델링, 확률적 프레임워크를 활용한 성능 분석 등 확률 과정의 기본 개념도 함께 다룹니다. 이 강의는 이론적 이해와 수학적 모델링 모두를 강조하여, 학생들이 실무에 바로 적용할 수 있는 실용적인 통찰력을 기를 수 있도록 구성되어 있습니다.

[2] Course Learning Outcomes

디지털 변/복조, 잡음 환경에서의 오류 성능 분석 등 디지털통신의 기본 원리를 이해하고 설명할 수 있음
다양한 디지털 통신 시스템(예: ASK, PSK, QAM 등)을 수학적으로 모델링하고 확률 및 신호 처리 관점에서 분석할 수 있음
디지털 통신 시스템 설계와 성능 향상을 위한 핵심 기법들을 이해하고 이를 실제 응용 문제에 적용할 수 있음

[3] Class Delivery Method

강의는 아래 '주교재1'을 기반으로 하며, 강의 방식은 매 수업 전에 배포될 강의 자료와 판서를 통해 진행될 예정입니다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	10 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	70 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	John G. Proakis & Masoud Salehi	Publisher	Pearson	Textbook	Fundamentals of Communication Systems (2nd Edition)	Issued year	2014
(2)	Author	John G. Proakis (이일근 외 6명 역)	Publisher	퍼스트북	Textbook	통신시스템의 기초	Issued year	2015
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Bernard Sklar & Fred Harris	Publisher	Pearson	Textbook	Digital Communications: Fundamentals and Applications (3rd Edition)	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	디지털통신 소개
Second week	신호 및 시스템 복습 (1) - 신호 분류, LTI 시스템, Fourier 급수/변환, 대역폭 개념
Third week	신호 및 시스템 복습 (2) + 샘플링/ADC - 저역/대역통과 신호, 샘플링 정리, 양자화, PCM
Fourth week	확률 복습 - 확률변수, 주요 분포(가우시안 중심), 기대값, 조건부 확률, 중심극한정리
Fifth week	랜덤 프로세스 - 정상성, 자기상관, 전력 스펙트럼 밀도, LTI 통과, AWGN 모델
Sixth week	디지털 전송의 기하학 - 신호공간 표현(Gram-Schmidt), 기저함수, 성상도 개념, PAM
Seventh week	기저대역 최적 수신 - 정합필터/상관수신기, ML 판정, PAM의 오류확률
Eighth week	중간 고사
Ninth week	반송파 변조 (1) - QAM, PSK의 신호공간 표현과 성상도, 대역통과 $\leftrightarrow$ 등가 기저대역
Tenth week	반송파 변조 (2) - QAM/PSK 오류확률, union bound, 성상도별 성능·대역폭 효율 비교
Eleventh week	비동기 계열 + 동기화 개요 - FSK, 비동기 검파, 반송파/심볼 동기 개념
Twelfth week	대역제한 채널과 ISI - Nyquist 기준, pulse shaping (raised cosine), eye diagram, 등화 개념
Thirteenth week	채널 용량과 채널 코딩 입문 - Shannon 용량, 코딩의 필요성, 블록/컨볼루션 코드 맛보기
Fourteenth week	다중반송파/OFDM 입문 + 종합 정리 — ISI 해법으로서의 OFDM, CP 개념, 시스템 전체 조망
Fifteenth week	기말 고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	DIGITAL COMMUNICATION		Course Number	EPC6054002		
Major / School Year	Major in Electronics Engineering	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 윤석현	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[08-433:수(5B-6)] [08-518:월(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

이 강의는 디지털 통신 시스템의 이론과 설계에 대한 기초를 제공하며, 특히 디지털 변/복조 방식, 수신기 설계, 확률적 모델링에 중점을 둡니다. 다루는 내용으로는 PSK와 QAM과 같은 변조 기법, Constellation Diagram, MAP와 MLE 검출, 최적 수신기 구조, BER와 SER 분석, 채널 잡음 모델링, OFDM, 채널 코딩이 포함됩니다. 또한, 가우시안 잡음, 통계적 신호 모델링, 확률적 프레임워크를 활용한 성능 분석 등 확률 과정의 기본 개념도 함께 다룹니다. 이 강의는 이론적 이해와 수학적 모델링 모두를 강조하여, 학생들이 실무에 바로 적용할 수 있는 실용적인 통찰력을 기를 수 있도록 구성되어 있습니다.

[2] Course Learning Outcomes

디지털 변/복조, 잡음 환경에서의 오류 성능 분석 등 디지털통신의 기본 원리를 이해하고 설명할 수 있음
다양한 디지털 통신 시스템(예: ASK, PSK, QAM 등)을 수학적으로 모델링하고 확률 및 신호 처리 관점에서 분석할 수 있음
디지털 통신 시스템 설계와 성능 향상을 위한 핵심 기법들을 이해하고 이를 실제 응용 문제에 적용할 수 있음

[3] Class Delivery Method

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㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	10 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	70 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

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(2)	Author	John G. Proakis (이일근 외 6명 역)	Publisher	퍼스트북	Textbook	통신시스템의 기초	Issued year	2015
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Bernard Sklar & Fred Harris	Publisher	Pearson	Textbook	Digital Communications: Fundamentals and Applications (3rd Edition)	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	디지털통신 소개
Second week	신호 및 시스템 복습 (1) - 신호 분류, LTI 시스템, Fourier 급수/변환, 대역폭 개념
Third week	신호 및 시스템 복습 (2) + 샘플링/ADC - 저역/대역통과 신호, 샘플링 정리, 양자화, PCM
Fourth week	확률 복습 - 확률변수, 주요 분포(가우시안 중심), 기대값, 조건부 확률, 중심극한정리
Fifth week	랜덤 프로세스 - 정상성, 자기상관, 전력 스펙트럼 밀도, LTI 통과, AWGN 모델
Sixth week	디지털 전송의 기하학 - 신호공간 표현(Gram-Schmidt), 기저함수, 성상도 개념, PAM
Seventh week	기저대역 최적 수신 - 정합필터/상관수신기, ML 판정, PAM의 오류확률
Eighth week	중간 고사
Ninth week	반송파 변조 (1) - QAM, PSK의 신호공간 표현과 성상도, 대역통과↔등가 기저대역
Tenth week	반송파 변조 (2) - QAM/PSK 오류확률, union bound, 성상도별 성능·대역폭 효율 비교
Eleventh week	비동기 계열 + 동기화 개요 - FSK, 비동기 검파, 반송파/심볼 동기 개념
Twelfth week	대역제한 채널과 ISI - Nyquist 기준, pulse shaping (raised cosine), eye diagram, 등화 개념
Thirteenth week	채널 용량과 채널 코딩 입문 - Shannon 용량, 코딩의 필요성, 블록/컨볼루션 코드 맛보기
Fourteenth week	다중반송파/OFDM 입문 + 종합 정리 — ISI 해법으로서의 OFDM, CP 개념, 시스템 전체 조망
Fifteenth week	기말 고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	MICROWAVE ENGINEERIG		Course Number	EPC6023001	
Major / School Year	Major in Electronics Engineering	/ 3	completion division /Grade evaluation	/	
Department/Professor	Dept. of Electronics Engineering	/ 윤영노	Grades/Lecture/ Practice	3	/ 3 / 0
Phone Number	A weekday / class / lecture room		[08-419:화(4-5A),목(4-5A)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

현대 무선 통신 시스템의 이해와 해석에 필요한 초고주파 회로 부품 및 시스템 설계에 필요한 이론을 배웁니다

[2] Course Learning Outcomes

맥스웰 방정식을 통하여 전자기파의 다양한 매질 내에서의 전파, 반사 등의 파동 현상을 이해하고 전송 선로 이론, 스미스 차트, 임피던스 정합, 도파관 등 다양한 초고주파 수동 회로의 해석 및 설계를 위한 기초 이론을 다룹니다.

[3] Class Delivery Method

각 주제에 대한 강의 위주로 진행되며 문제 풀이에 대한 참여를 통하여 해결능력을 배양한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	30 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	David M. Pozar	Publisher	Wiley	Textbook	Microwave Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Electromagnetic Theory
Third week	Electromagnetic Theory Transmission Line Theory
Fourth week	Transmission Line Theory
Fifth week	Transmission Lines and Waveguides
Sixth week	Microwave Network Analysis
Seventh week	Impedance Matching and Tuning
Eighth week	Midterm Exam
Ninth week	Noise and Nonlinear Distortion
Tenth week	Microwave Amplifier Design
Eleventh week	Oscillators
Twelfth week	Mixers
Thirteenth week	Wireless Communications
Fourteenth week	Antennas
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Fundamentals of Semiconductor Process Technology	Course Number	0005947002
Major / School Year	Major in Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 조정완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-419:목(8B-9),금(8B-9)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course provides a comprehensive introduction to semiconductor fabrication technology, covering the historical development and industrial structure of the semiconductor field, CMOS process flow, silicon crystal growth and wafer preparation, thermal oxidation, photolithography, wet and dry etching, diffusion, ion implantation, thin-film deposition, process integration, electrical testing, packaging, and advanced semiconductor technologies.

The course emphasizes the physical and chemical principles underlying each fabrication process, as well as the relationships among process parameters, material properties, device structures, and electrical performance. Topics include Czochralski and float-zone crystal growth, thermal oxidation kinetics, optical and EUV lithography, plasma etching, dopant diffusion and activation, physical and chemical vapor deposition, atomic layer deposition, epitaxial growth, dielectric and metal interconnect formation, chemical mechanical polishing, and electrical process monitoring.

In addition to conventional CMOS manufacturing, the course introduces advanced technologies such as multiple patterning, extreme-ultraviolet and High-NA EUV lithography, atomic layer etching, high-aspect-ratio processing, FinFET and gate-all-around devices, three-dimensional integration, high-bandwidth memory, and advanced semiconductor packaging.

Through this course, students will develop an integrated understanding of how individual unit processes are combined to fabricate modern semiconductor devices and systems.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

- #1 Explain the historical development of semiconductor technology and the structure of the global semiconductor industry.
- #2 Classify major semiconductor devices and describe their roles in modern electronic systems.
- #3 Describe the overall CMOS fabrication sequence and explain how individual unit processes are integrated.
- #4 Explain the principles of semiconductor crystal growth, silicon purification, and wafer preparation.
- #5 Analyze the kinetics, process conditions, and electrical quality of thermally grown silicon oxide.
- #6 Explain the complete photolithography process and evaluate the effects of wavelength, numerical aperture, depth of focus, and process conditions on pattern resolution.
- #7 Compare conventional and advanced lithography technologies, including resolution enhancement techniques, multiple patterning, EUV, and High-NA EUV lithography.
- #8 Compare wet and dry etching processes and explain the roles of plasma chemistry, ion bombardment, selectivity, anisotropy, and process damage.
- #9 Analyze dopant diffusion, ion implantation, and thermal activation processes used to control semiconductor junction profiles.
- #10 Compare physical vapor deposition, chemical vapor deposition, atomic layer deposition, and epitaxial growth in terms of their mechanisms, process conditions, film properties, and applications.
- #11 Explain the principles of dielectric formation, metallization, contact and interconnect fabrication, chemical mechanical polishing, and front-end and back-end process integration.
- #12 Describe semiconductor electrical testing, process control monitoring, yield analysis, packaging, and advanced integration technologies.
- #13 Apply semiconductor process knowledge to analyze fabrication flows, process-structure-property relationships, integration trade-offs, defects, and scaling challenges in advanced devices.

[3] Class Delivery Method

-Language of Instruction: English

-Primary Format: PPT-based lectures supplemented by blackboard explanations of equations, physical mechanisms, equipment configurations, and semiconductor process flows.

-Course Organization: Each fabrication technology is introduced through its purpose, fundamental mechanism, major equipment, process variables, resulting material or structural characteristics, typical defects, and applications in integrated semiconductor manufacturing.

-Learning Activities:

- #1 In-class questions and conceptual discussions
- #2 Review of representative process flows and equipment schematics

#3 Quantitative examples involving oxidation, diffusion, lithographic resolution, etching, ion implantation, and thin-film deposition
 #4 Analysis of relationships between process conditions, material properties, device structures, and electrical performance
 #5 Videos and case studies illustrating commercial semiconductor fabrication facilities and equipment
 #6 Assignments designed to broaden students' understanding of the semiconductor industry and to develop awareness of current technology trends, professional values, and industry practices

–Assessment: Student performance will be evaluated through the midterm examination, final examination, assignments, attendance, and class participation.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	5 %	0 %	0 %	5 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	75 %	0 %	5 %	0 %	0 %	0 %

[4] Grading Policies

Midterm examination 30%
 Final term examination 30%
 Assignment 20%
 Attendance 20%

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Yaguang Lian	Publisher		Textbook	Semiconductor Microchips and Fabrication: A Practical Guide to Theory and Manufacturing Hardcover	Issued year	2022
(2)	Author	Hong Xiao	Publisher		Textbook	Introduction to Semiconductor Manufacturing Technology	Issued year	2012
(3)	Author	simon sze	Publisher		Textbook	VLSI TECHNOLOGY	Issued year	

[Reference books]

(1)	Author	황호정	Publisher	생능출판사	Textbook	반도체 공정기술	Issued year	
(2)	Author		Publisher	McGraw Hill	Textbook	Semiconductor Physics And Devices: Basic Principles	Issued year	2011
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	History, Industry, and Overview of Semiconductor Fabrication
Second week	Semiconductor Crystal Growth and Wafer Preparation
Third week	Thermal Oxidation of Silicon
Fourth week	Photolithography I: Process Sequence, Masks, and Photoresists
Fifth week	Photolithography II: Resolution Enhancement and Next-Generation Lithography
Sixth week	Etching I: Wet Chemical Etching and Fundamentals of Plasma Processing
Seventh week	Etching II: Reactive Ion Etching and Atomic-Scale Etching

Eighth week	Midterm Examination
Ninth week	Dopant Diffusion and Thermal Processing
Tenth week	Ion Implantation and Dopant Activation
Eleventh week	Physical Vapor Deposition and Vacuum/Plasma Technology
Twelfth week	Chemical Vapor Deposition, Atomic Layer Deposition, and Epitaxy
Thirteenth week	Process Integration, Dielectrics, Metallization, and CMP
Fourteenth week	Electrical Testing, Packaging, and Future Semiconductor Technologies
Fifteenth week	Final Examination
Sixteenth week	Semiconductor FAB or Laboratory Tour

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Fundamentals of Semiconductor Process Technology	Course Number	0005947003
Major / School Year	Major in Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 조정완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-419:수(8B-9),목(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course provides a comprehensive introduction to semiconductor fabrication technology, covering the historical development and industrial structure of the semiconductor field, CMOS process flow, silicon crystal growth and wafer preparation, thermal oxidation, photolithography, wet and dry etching, diffusion, ion implantation, thin-film deposition, process integration, electrical testing, packaging, and advanced semiconductor technologies.

The course emphasizes the physical and chemical principles underlying each fabrication process, as well as the relationships among process parameters, material properties, device structures, and electrical performance. Topics include Czochralski and float-zone crystal growth, thermal oxidation kinetics, optical and EUV lithography, plasma etching, dopant diffusion and activation, physical and chemical vapor deposition, atomic layer deposition, epitaxial growth, dielectric and metal interconnect formation, chemical mechanical polishing, and electrical process monitoring.

In addition to conventional CMOS manufacturing, the course introduces advanced technologies such as multiple patterning, extreme-ultraviolet and High-NA EUV lithography, atomic layer etching, high-aspect-ratio processing, FinFET and gate-all-around devices, three-dimensional integration, high-bandwidth memory, and advanced semiconductor packaging.

Through this course, students will develop an integrated understanding of how individual unit processes are combined to fabricate modern semiconductor devices and systems.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

- #1 Explain the historical development of semiconductor technology and the structure of the global semiconductor industry.
- #2 Classify major semiconductor devices and describe their roles in modern electronic systems.
- #3 Describe the overall CMOS fabrication sequence and explain how individual unit processes are integrated.
- #4 Explain the principles of semiconductor crystal growth, silicon purification, and wafer preparation.
- #5 Analyze the kinetics, process conditions, and electrical quality of thermally grown silicon oxide.
- #6 Explain the complete photolithography process and evaluate the effects of wavelength, numerical aperture, depth of focus, and process conditions on pattern resolution.
- #7 Compare conventional and advanced lithography technologies, including resolution enhancement techniques, multiple patterning, EUV, and High-NA EUV lithography.
- #8 Compare wet and dry etching processes and explain the roles of plasma chemistry, ion bombardment, selectivity, anisotropy, and process damage.
- #9 Analyze dopant diffusion, ion implantation, and thermal activation processes used to control semiconductor junction profiles.
- #10 Compare physical vapor deposition, chemical vapor deposition, atomic layer deposition, and epitaxial growth in terms of their mechanisms, process conditions, film properties, and applications.
- #11 Explain the principles of dielectric formation, metallization, contact and interconnect fabrication, chemical mechanical polishing, and front-end and back-end process integration.
- #12 Describe semiconductor electrical testing, process control monitoring, yield analysis, packaging, and advanced integration technologies.
- #13 Apply semiconductor process knowledge to analyze fabrication flows, process-structure-property relationships, integration trade-offs, defects, and scaling challenges in advanced devices.

[3] Class Delivery Method

-Language of Instruction: English

-Primary Format: PPT-based lectures supplemented by blackboard explanations of equations, physical mechanisms, equipment configurations, and semiconductor process flows.

-Course Organization: Each fabrication technology is introduced through its purpose, fundamental mechanism, major equipment, process variables, resulting material or structural characteristics, typical defects, and applications in integrated semiconductor manufacturing.

-Learning Activities:

- #1 In-class questions and conceptual discussions
- #2 Review of representative process flows and equipment schematics

#3 Quantitative examples involving oxidation, diffusion, lithographic resolution, etching, ion implantation, and thin-film deposition
 #4 Analysis of relationships between process conditions, material properties, device structures, and electrical performance
 #5 Videos and case studies illustrating commercial semiconductor fabrication facilities and equipment
 #6 Assignments designed to broaden students' understanding of the semiconductor industry and to develop awareness of current technology trends, professional values, and industry practices

–Assessment: Student performance will be evaluated through the midterm examination, final examination, assignments, attendance, and class participation.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	5 %	0 %	0 %	5 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	75 %	0 %	5 %	0 %	0 %	0 %

[4] Grading Policies

Midterm examination 30%
 Final term examination 30%
 Assignment 20%
 Attendance 20%

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Yaguang Lian	Publisher		Textbook	Semiconductor Microchips and Fabrication: A Practical Guide to Theory and Manufacturing Hardcover	Issued year	2022
(2)	Author	Hong Xiao	Publisher		Textbook	Introduction to Semiconductor Manufacturing Technology	Issued year	2012
(3)	Author	simon sze	Publisher		Textbook	VLSI TECHNOLOGY	Issued year	

[Reference books]

(1)	Author	황호정	Publisher	생능출판사	Textbook	반도체 공정기술	Issued year	
(2)	Author		Publisher	McGraw Hill	Textbook	Semiconductor Physics And Devices: Basic Principles	Issued year	2011
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	History, Industry, and Overview of Semiconductor Fabrication
Second week	Semiconductor Crystal Growth and Wafer Preparation
Third week	Thermal Oxidation of Silicon
Fourth week	Photolithography I: Process Sequence, Masks, and Photoresists
Fifth week	Photolithography II: Resolution Enhancement and Next-Generation Lithography
Sixth week	Etching I: Wet Chemical Etching and Fundamentals of Plasma Processing
Seventh week	Etching II: Reactive Ion Etching and Atomic-Scale Etching

Eighth week	Midterm Examination
Ninth week	Dopant Diffusion and Thermal Processing
Tenth week	Ion Implantation and Dopant Activation
Eleventh week	Physical Vapor Deposition and Vacuum/Plasma Technology
Twelfth week	Chemical Vapor Deposition, Atomic Layer Deposition, and Epitaxy
Thirteenth week	Process Integration, Dielectrics, Metallization, and CMP
Fourteenth week	Electrical Testing, Packaging, and Future Semiconductor Technologies
Fifteenth week	Final Examination
Sixteenth week	Semiconductor FAB or Laboratory Tour

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Fundamentals of Semiconductor Process Technology	Course Number	0005947004
Major / School Year	Major in Semiconductor Convergence / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 조정완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-419:수(7-8A),금(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course provides a comprehensive introduction to semiconductor fabrication technology, covering the historical development and industrial structure of the semiconductor field, CMOS process flow, silicon crystal growth and wafer preparation, thermal oxidation, photolithography, wet and dry etching, diffusion, ion implantation, thin-film deposition, process integration, electrical testing, packaging, and advanced semiconductor technologies.

The course emphasizes the physical and chemical principles underlying each fabrication process, as well as the relationships among process parameters, material properties, device structures, and electrical performance. Topics include Czochralski and float-zone crystal growth, thermal oxidation kinetics, optical and EUV lithography, plasma etching, dopant diffusion and activation, physical and chemical vapor deposition, atomic layer deposition, epitaxial growth, dielectric and metal interconnect formation, chemical mechanical polishing, and electrical process monitoring.

In addition to conventional CMOS manufacturing, the course introduces advanced technologies such as multiple patterning, extreme-ultraviolet and High-NA EUV lithography, atomic layer etching, high-aspect-ratio processing, FinFET and gate-all-around devices, three-dimensional integration, high-bandwidth memory, and advanced semiconductor packaging.

Through this course, students will develop an integrated understanding of how individual unit processes are combined to fabricate modern semiconductor devices and systems.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

- #1 Explain the historical development of semiconductor technology and the structure of the global semiconductor industry.
- #2 Classify major semiconductor devices and describe their roles in modern electronic systems.
- #3 Describe the overall CMOS fabrication sequence and explain how individual unit processes are integrated.
- #4 Explain the principles of semiconductor crystal growth, silicon purification, and wafer preparation.
- #5 Analyze the kinetics, process conditions, and electrical quality of thermally grown silicon oxide.
- #6 Explain the complete photolithography process and evaluate the effects of wavelength, numerical aperture, depth of focus, and process conditions on pattern resolution.
- #7 Compare conventional and advanced lithography technologies, including resolution enhancement techniques, multiple patterning, EUV, and High-NA EUV lithography.
- #8 Compare wet and dry etching processes and explain the roles of plasma chemistry, ion bombardment, selectivity, anisotropy, and process damage.
- #9 Analyze dopant diffusion, ion implantation, and thermal activation processes used to control semiconductor junction profiles.
- #10 Compare physical vapor deposition, chemical vapor deposition, atomic layer deposition, and epitaxial growth in terms of their mechanisms, process conditions, film properties, and applications.
- #11 Explain the principles of dielectric formation, metallization, contact and interconnect fabrication, chemical mechanical polishing, and front-end and back-end process integration.
- #12 Describe semiconductor electrical testing, process control monitoring, yield analysis, packaging, and advanced integration technologies.
- #13 Apply semiconductor process knowledge to analyze fabrication flows, process-structure-property relationships, integration trade-offs, defects, and scaling challenges in advanced devices.

[3] Class Delivery Method

-Language of Instruction: English

-Primary Format: PPT-based lectures supplemented by blackboard explanations of equations, physical mechanisms, equipment configurations, and semiconductor process flows.

-Course Organization: Each fabrication technology is introduced through its purpose, fundamental mechanism, major equipment, process variables, resulting material or structural characteristics, typical defects, and applications in integrated semiconductor manufacturing.

-Learning Activities:

- #1 In-class questions and conceptual discussions
- #2 Review of representative process flows and equipment schematics

#3 Quantitative examples involving oxidation, diffusion, lithographic resolution, etching, ion implantation, and thin-film deposition
 #4 Analysis of relationships between process conditions, material properties, device structures, and electrical performance
 #5 Videos and case studies illustrating commercial semiconductor fabrication facilities and equipment
 #6 Assignments designed to broaden students' understanding of the semiconductor industry and to develop awareness of current technology trends, professional values, and industry practices

–Assessment: Student performance will be evaluated through the midterm examination, final examination, assignments, attendance, and class participation.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	5 %	0 %	0 %	5 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	75 %	0 %	5 %	0 %	0 %	0 %

[4] Grading Policies

Midterm examination 30%
 Final term examination 30%
 Assignment 20%
 Attendance 20%

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Yaguang Lian	Publisher		Textbook	Semiconductor Microchips and Fabrication: A Practical Guide to Theory and Manufacturing Hardcover	Issued year	2022
(2)	Author	Hong Xiao	Publisher		Textbook	Introduction to Semiconductor Manufacturing Technology	Issued year	2012
(3)	Author	simon sze	Publisher		Textbook	VLSI TECHNOLOGY	Issued year	

[Reference books]

(1)	Author	황호정	Publisher	생능출판사	Textbook	반도체 공정기술	Issued year	
(2)	Author		Publisher	McGraw Hill	Textbook	Semiconductor Physics And Devices: Basic Principles	Issued year	2011
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	History, Industry, and Overview of Semiconductor Fabrication
Second week	Semiconductor Crystal Growth and Wafer Preparation
Third week	Thermal Oxidation of Silicon
Fourth week	Photolithography I: Process Sequence, Masks, and Photoresists
Fifth week	Photolithography II: Resolution Enhancement and Next-Generation Lithography
Sixth week	Etching I: Wet Chemical Etching and Fundamentals of Plasma Processing
Seventh week	Etching II: Reactive Ion Etching and Atomic-Scale Etching

Eighth week	Midterm Examination
Ninth week	Dopant Diffusion and Thermal Processing
Tenth week	Ion Implantation and Dopant Activation
Eleventh week	Physical Vapor Deposition and Vacuum/Plasma Technology
Twelfth week	Chemical Vapor Deposition, Atomic Layer Deposition, and Epitaxy
Thirteenth week	Process Integration, Dielectrics, Metallization, and CMP
Fourteenth week	Electrical Testing, Packaging, and Future Semiconductor Technologies
Fifteenth week	Final Examination
Sixteenth week	Semiconductor FAB or Laboratory Tour

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	PHYSICAL CHEMISTRY FOR MATERIALS SCIENCE(1)		Course Number	EQA6057001		
Major / School Year	Dept. of Materials Science and Engineering / 2		completion division / Grade evaluation	/		
Department/Professor	Dept. of Materials Science and Engineering / 장태후		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[08-503:화(7-8A),수(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course provides a fundamental understanding of thermodynamic principles and their applications in material systems. The course covers key topics such as Gibbs free energy, phase equilibria, and reaction equilibrium which are essential for understanding the behavior of materials under different conditions. Through theoretical discussions, problem-solving exercises, and practical applications, students will develop a comprehensive knowledge of how thermodynamic principles govern material properties and transformations.

[2] Course Learning Outcomes

1. Understand Fundamental Thermodynamics
2. Analyze Free Energy and Equilibrium
3. Apply Thermodynamic Principles to Gases
4. Evaluate Chemical and Reaction Equilibria
5. Interpret Phase Diagrams and Solution Behavior

[3] Class Delivery Method

Lecture using PowerPoint lecture notes

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Final Grade (100%) = Midterm Exam (35%) + Final Exam (35%) + Assignments (10%) + Attendance (20%)

※ Students who are absent for more than one-third of the total class hours will receive an F grade.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Peter Atkins	Publisher	Oxford University Press	Textbook	Atkins' Physical Chemistry	Issued year	
(2)	Author	David R. Gaskell	Publisher	McGraw-Hill book company	Textbook	Introduction to The Thermodynamics of Materials	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Properties of Gases – Perfect gas – Real gases
Third week	The First Law of Thermodynamics – Expansion work and heat transactions – Enthalpy and adiabatic changes
Fourth week	The First Law of Thermodynamics – Thermochemistry – State functions and exact differential
Fifth week	The Second Law of Thermodynamics – Entropy – Spontaneous reaction
Sixth week	The Second Law of Thermodynamics – Free energy – Helmholtz and Gibbs energy
Seventh week	Combining the First and Second laws
Eighth week	Mid-term examination
Ninth week	Physical Transformations – Phase diagrams – Phase transitions
Tenth week	Simple Mixtures – Chemical Potentials
Eleventh week	Simple Mixtures – Ideal Solution
Twelfth week	Simple Mixtures – Colligative properties
Thirteenth week	Simple Mixtures – Activity
Fourteenth week	Phase Diagrams – Phase rule
Fifteenth week	Final Examination
Sixteenth week	Phase Diagrams – Liquid-liquid phase diagrams – Liquid-solid phase diagrams

[7] Assignments

The first assignment	assignment	Homework	submission date	
	purpose	Developing conceptual understanding and applications		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CRYSTAL STRUCTURE OF MATERIALS		Course Number	EQA6046001		
Major / School Year	Dept. of Materials Science and Engineering / 2		completion division / Grade evaluation	/		
Department/Professor	Dept. of Materials Science and Engineering / 김다빈		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[08-503:월(8B-9), 화(8B-9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course provides a comprehensive understanding of the crystal structures of materials, including metals, ceramics, polymers, and composites. Students will learn about the arrangement of atoms in crystalline solids, crystallographic directions and planes, and the principles underlying X-ray diffraction and other characterization techniques. The course will also cover the relationship between crystal structure and material properties.

[2] Course Learning Outcomes

1. Understand the basic principles of crystallography and crystal structures.
2. Familiarize students with different types of crystal structures in various materials.
3. Understand the role of crystal structures in determining the properties of materials.
4. Introduce techniques for characterizing crystal structures.

[3] Class Delivery Method

- PPT slides (handout)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Exam (mid 30, final 35) - 65

Attendance - 20

Assignments (10) and pop-up quiz (5) - 15

① Percentage of grade evaluation

Exam	Attendance	Assignment
65 %	20 %	15 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and Overview
Second week	Types of chemical bonds
Third week	Atomic packing
Fourth week	Atomic packing
Fifth week	Crystals and Lattices – Crystallographic Directions and Planes
Sixth week	Crystals and Lattices – Crystallographic Directions and Planes
Seventh week	Space group
Eighth week	Midterm exam
Ninth week	Common Crystal Structures – Metallic Crystal Structures (BCC, FCC, HCP)
Tenth week	Crystal structure of compounds
Eleventh week	Defects in Crystals – Point Defects, Dislocations, and Grain Boundaries
Twelfth week	Wave and Diffraction
Thirteenth week	Wave and Diffraction
Fourteenth week	X-ray Diffraction and Crystal Structure Determination
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	STRUCTURE AND DEFECTS OF THE SOLIDS		Course Number	EQA6009001		
Major / School Year	Dept. of Materials Science and Engineering / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Materials Science and Engineering / 명재하		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[08-385:목(2B-3)] [08-503:수(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

본 과목은 고체 무기 화합물(세라믹스) 내에서의 점결함 생성 메커니즘과 Mass Transport(이온 수송) 현상을 다루는 전공 심화 과목입니다. 학부 수준에서 Kröger-Vink 표기법을 마스터하여 고체 격자 내 결함의 열역학적 평형을 해석하고, 전기화학적 구동력에 의한 산소이온 및 프로톤의 전도 원리를 학습합니다.

[2] Course Learning Outcomes

고체이온학적 기초 이론이 차세대 그린 수소 생산(SOEC) 및 발전(SOFC) 디바이스의 고체 전해질, 페로브스카이트 전극 소재의 용출 촉매 제어, 그리고 열화 메커니즘을 극복하는 실제 연구 결과와 어떻게 직결되는지 그 연계성을 마스터합니다

[3] Class Delivery Method

제공되는 PPT 자료 및 시청각 자료, 그리고 팀프로젝트로 운영됩니다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Joachim Maier	Publisher		Textbook	Solid State Ionics: Fundamentals and Applications	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	고체이온학 개론 및 에너지 변환
Second week	결정 격자 결함과 물리화학
Third week	Kröger-Vink 표기법 및 도핑 이론
Fourth week	고체 내 결함의 화학 평형
Fifth week	질량 수송과 이온 확산 원리
Sixth week	Nernst-Einstein 관계식과 전기전도도
Seventh week	고체이온 전도도 측정 실무 (EIS)
Eighth week	중간고사
Ninth week	[실전 연계 I] SOFC 산소이온 전해질
Tenth week	[실전 연계 II] 고온 프로톤 전도성 소재
Eleventh week	[실전 연계 III] 혼합 전도성(MIEC) 양극
Twelfth week	[실전 연계 IV] 나노 용출(Exsolution) 기술
Thirteenth week	[실전 연계 V] 가역 고체산화물 셀 (R-SOC)
Fourteenth week	R-SOC 소재 설계 프로젝트 발표
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	SEMICONDUCTOR PHYSICS		Course Number	EQA6105001		
Major / School Year	Dept. of Materials Science and Engineering / 2		completion division / Grade evaluation	/		
Department/Professor	Dept. of Materials Science and Engineering / 장태후		Grades/Lecture/Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[08-503:화(2B-3),수(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course provides a foundational understanding of the physical principles that govern the behavior of semiconductors. Starting with basic concepts from solid-state physics and quantum mechanics, the course explores energy band structures, carrier statistics, and charge transport phenomena in semiconductors. These concepts are then applied to analyze the operation of semiconductor junctions and electronic devices.

[2] Course Learning Outcomes

1. Understand the fundamental electronic structure of semiconductors based on solid-state physics and quantum mechanics
2. Analyze carrier dynamics and transport phenomena in semiconductors
3. Bridge semiconductor material properties with actual device behavior (e.g., diodes, transistors)

[3] Class Delivery Method

Lecture using PowerPoint lecture notes.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	10 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Final Grade (100%) = Midterm Exam (35%) + Final Exam (35%) + Assignments (20%) + Attendance (10%)

※ Students who are absent for more than one-third of the total class hours will receive an F grade.

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	S. Kasap	Publisher	McGraw-Hill	Textbook	Principles of Electronic Materials and Devices	Issued year	
(2)	Author	Arthur Beiser	Publisher	McGraw-Hill	Textbook	Concepts of Modern Physics	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Crystal Structures – Lattice types – Bragg's diffraction
Third week	Bonding in Solids & Introduction to Band Theory – Ionic/covalent bonds – Band theory basics
Fourth week	Basics of Quantum Mechanics – Wavefunctions and Schrödinger equation
Fifth week	Basics of Quantum Mechanics – Particle in a box & tunneling
Sixth week	Band Theory and Energy Bands – Free electron model – Kronig-Penney model
Seventh week	Semiconductor Types and Band Structures – Direct vs indirect bandgap – Intrinsic vs extrinsic semiconductors
Eighth week	Mid-term Examination
Ninth week	Carrier Concentration and Fermi Energy – Fermi-Dirac distribution – Density of states
Tenth week	Carrier Dynamics – Generation and recombination
Eleventh week	Carrier Dynamics – Drift and diffusion current
Twelfth week	Physics of PN Junctions – Built-in potential – Depletion region – I-V characteristics
Thirteenth week	Metal-Semiconductor Contacts and Schottky Barrier – Ohmic vs Schottky contacts
Fourteenth week	MOS Structures and Capacitance Behavior – MOS capacitor structure – C-V characteristics
Fifteenth week	Final Examination
Sixteenth week	Modern Applications and Course Summary

[7] Assignments

The first assignment	assignment	Homework	submission date	
	purpose	Developing conceptual understanding and applications		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Materials Thermodynamics	Course Number	0009475001
Major / School Year	Dept. of Materials Science and Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 명재하	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-385:화(2B-3),수(2B-3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

The fundamental topics including the importance and applicability of thermodynamics in Materials Science, classical thermodynamics and basic statistical thermodynamics, essentials of free energy, equilibrium/non-equilibrium state of materials and their stability, phase transformation and chemical reaction, also construction of phase diagrams and thermodynamic approaching methods of real materials systems will be deeply treated in this course.

[2] Course Learning Outcomes

Understanding basic theories of thermodynamics for diverse phenomena, also phase equilibria and phase diagram

[3] Class Delivery Method

lecture, group project

- 신소재공학에서는 학과교수회의에서 수강인원 조정으로 교육의 질 개선 교육의 질 개선, 코로나 등에 따른 대면수업으로 인한 인원 제한, 학년별 성적 불균형 해소, 졸업예정자 교과목 폐강에 따른 전공이수학점 부족 등에 따라 아래와 같이 수강신청 내규를 제정합니다.

(1) 정원 조정 : 이론교과목(40명), 영어강의 교과목(30명)

(2) 수강신청 우선순위

① 해당 학년 학생

② 전입생(편입학생, 전과생, 복수전공, 연계전공, 부전공...등)

③ 4학년 졸업 학점 관련 불가피한 자

④ 고학년이지만 첫 수강자(3학년, 4학년 순)

⑤ 재수강자

수강신청내규에 문의가 있는 학생은 학과장님과 면담 신청 바랍니다.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robert T. Dehoff	Publisher		Textbook	Thermodynamics in Materials Science	Issued year	
(2)	Author	D.R. Gaskell	Publisher		Textbook	Introduction to Metallurgical Thermodynamics	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

PPT slides and handout

[6] Weekly lesson plans

First week	Lecture introduction
Second week	Introduction : Purpose, Usefulness, Definition, and Behavior of Matter Structure of Thermodynamics : Thermodynamic Systems/Properties, Classification of Relationships, and Equilibrium
Third week	Laws of Thermodynamics : The First/Second/Third Law of Thermodynamics, Energy Balance, and Combined Statements Thermodynamic Variables and Relations : Maxwell Relations, General Strategy for Deriving Thermodynamic Relations, and Applications to Solids/Liquids
Fourth week	Equilibrium in Thermodynamic Systems : General Criterion for Equilibrium, Mathematical Formulation, and Application of General Strategy of Finding Conditions for Equilibrium
Fifth week	Statistical Thermodynamics : Micro-/Macrostate, Entropy, Conditions for Equilibrium in Statistical Thermodynamics, and Calculation of Macroscopic Properties Model with Two Energy Levels, Einstein & Debye Heat Capacity Models, Alternate Statistical Formulations, and Most Probable State
Sixth week	Multicomponent, Homogeneous Nonreacting Systems : Partial Molar Properties, Evaluation of PMP, and Their Relationships Chemical Potential in Multicomponent Systems : Fugacities, Activities, Activity Coefficients, and Solution Models
Seventh week	Thermodynamics of Phase Transformations, Richardson–Ellingham Charts for Oxidation and Reduction, and Predominance Diagrams
Eighth week	Mid-term
Ninth week	Statements of Lever and Phase Rules, Their Applications, Thermodynamics and Phase Equilibria
Tenth week	Equilibria in One-Component Systems : Phase Rule, P–T Diagrams, Clausius–Clapeyron Equation.
Eleventh week	Condensed One-Component Systems, Non-Equilibrium Systems
Twelfth week	Equilibria Two-Component Systems : Phase Rule, Equilibrium between Phases of variable Composition. Equilibrium Criteria.
Thirteenth week	Solution Theories, Free Energy of Binary Systems, Types of Binary Diagrams and Crystallization Paths : Problems and Solutions.
Fourteenth week	Gas Phase Effects on Phase Stability, Non-Equilibrium Systems, Methods of Constructing Phase Diagrams from Thermodynamics Data

Fifteenth week	Group project
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Semiconductor Device Nanofabrication 2	Course Number	0012377001
Major / School Year	Dept. of Materials Science and Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 장태후	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-502:월(7-8A)] [08-534:목(4-5A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This class is designed for the 3rd year undergraduate students to understand the modern integrated circuit fabrication, in other words, the manufacturing of Si device. In this class, we will study about the development history of the modern Si device and the background and fundamentals of each unit process, such as wafer preparation, diffusion, doping, deposition, lithography, etching, and interconnect. This is the 2nd part of a 1-year-course.

[2] Course Learning Outcomes

Understanding the modern integrated circuit fabrication

[3] Class Delivery Method

Lecture notes and assignments

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Mid term: 30 %

Final: 30 %

Random Quiz: 20 %

Attendance: 20 %

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Plummer and Griffin, Stanford University	Publisher	Cambridge University Press	Textbook	Integrated Circuit Fabrication	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Overview
Second week	Doping in Semiconductors
Third week	Doping in Semiconductors
Fourth week	Doping in Semiconductors
Fifth week	Ion Implantation
Sixth week	Ion Implantation
Seventh week	Etching Technologies and Chemical–Mechanical Polishing
Eighth week	Mid term exam
Ninth week	Etching Technologies and Chemical–Mechanical Polishing
Tenth week	Etching Technologies and Chemical–Mechanical Polishing
Eleventh week	Deposition Technologies
Twelfth week	Deposition Technologies
Thirteenth week	Back–End (Interconnect) Processing Technologies
Fourteenth week	Back–End (Interconnect) Processing Technologies
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Electronic Ceramics		Course Number	0011911001		
Major / School Year	Dept. of Materials Science and Engineering / 3		completion division / Grade evaluation	/		
Department/Professor	Dept. of Materials Science and Engineering / 김다빈		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[08-385:화(1-2A), 수(1-2A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course introduces the fundamental concepts of electronic ceramics, including dielectric, piezoelectric, ferroelectric, magnetic, and optical properties. Students will learn how these properties are used in real devices such as capacitors, sensors, and phosphors. The course emphasizes connections to industrial applications and includes recent developments in emerging materials like perovskites and nanomaterials.

[2] Course Learning Outcomes

1. To understand the physical principles behind the key functions of electronic ceramics.
2. To explore their applications in modern electronic devices, with industrial relevance.
3. To become familiar with selected emerging materials through research-based and industry-driven

[3] Class Delivery Method

This course will be delivered through lectures. Students are encouraged to participate through questions. Assignments will help reinforce core concepts, while exams will evaluate both theoretical understanding and practical applications.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Exams (mid-term 30% and final 35%) – 65%

Attendance – 20%

Assignments (group project)– 15%

① Percentage of grade evaluation

Exam	Attendance	Assignment
65 %	20 %	15 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Principles of Electronic Materials & Devices	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

PPT slides and handouts

[6] Weekly lesson plans

First week	Course Introduction: What are ceramics?
Second week	Chapter 7 (1) – Dielectric Materials and Insulation: Polarization mechanisms, frequency dependent dielectric constant, and boundary conditions.
Third week	Chapter 7 (2) – Dielectric Materials and Insulation: Dielectric strength and insulation. Applications: Capacitors, MLCC
Fourth week	Chapter 7 (3) – Dielectric Materials and Insulation: Piezo-, pyro-, and ferroelectricity. Applications: sensors, actuators, ferroelectric RAM (FeRAM)
Fifth week	Emerging dielectric materials: High-k oxides for transistors, 2D dielectrics for nanoscale and flexible devices
Sixth week	Chapter 8 (1) – Magnetic Properties and Superconductivity: Magnetic materials, ferromagnetism, and domain wall motion
Seventh week	Chapter 8 (2) – Magnetic Properties and Superconductivity: Soft and hard magnetic materials, practical examples and uses, and an introduction to superconductivity
Eighth week	Mid-term exam
Ninth week	Chapter 9 (1) – Optical Properties of Materials: Refractive index, Snell's law, and total internal reflection
Tenth week	Chapter 9 (2) – Optical Properties of Materials: Fresnel's equations, band-to-band absorption, and light scattering
Eleventh week	Chapter 9 (3) – Optical Properties of Materials: Types and mechanisms of luminescence, Applications: White LEDs, phosphors
Twelfth week	Chapter 9 (4) – Optical Properties of Materials: Polarization, optical anisotropy, and electro-optic effects, Applications: LCDs
Thirteenth week	introduction to emerging materials: Halide perovskites for optoelectronics (perovskite solar cells and photodetectors) introduction to emerging materials: nanomaterials (colloidal quantum dots and 2D TMDs) for optoelectronics, NIR, SWIR technologies
Fourteenth week	Group Project
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CHARACTERIZATION OF MATERIALS		Course Number	0004222001		
Major / School Year	Dept. of Materials Science and Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	Dept. of Materials Science and Engineering / 이미경		Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358272	A weekday / class / lecture room	[08-503:월(2B-3),수(8B-9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

1. Understand the basic principle of equipment to analyze materials
2. Apply these tools to diverse applications such as semiconductors and energy materials

[2] Course Learning Outcomes

From this lecture, we can learn about the working principle of analytical equipment, furthermore, we can apply this knowledge to lots of applications to characterize materials and understand scientific situations.

[3] Class Delivery Method

This class utilizes its own slides, which can cover the book (Principles of Instrumental Analysis) and research papers.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Slide	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Douglas A. Skoog	Publisher	Cengage	Textbook	Principle of Instrumental Analysis	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture overview and introduction
Second week	Measurement basic
Third week	Spectroscopy
Fourth week	Atomic Spectroscopy
Fifth week	Atomic emission Spectroscopy
Sixth week	Atomic mass spectroscopy
Seventh week	Atomic X-ray spectroscopy
Eighth week	Midterm exam
Ninth week	Molecular spectroscopy
Tenth week	Ultra-violet visible spectroscopy
Eleventh week	Raman analysis, NMR
Twelfth week	Mass spectroscopy
Thirteenth week	Electrochemical analysis
Fourteenth week	Chromatography
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Light energy conversion and solar cells	Course Number	0012378001
Major / School Year	Dept. of Materials Science and Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 김다빈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-385:월(5B-6),수(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Learn the fundamentals of materials science based on a basic understanding of materials used in the IT and electronics industries.

Explore the fundamental operating principles and applications of displays, solar cells, and transistors.

[2] Course Learning Outcomes

Understand the fundamental operating principles of various electronic devices.

Study electronic and information materials to acquire practical knowledge of materials used in industry and research institutions.

Cover fundamental questions commonly addressed in interviews for display and electronics companies.

[3] Class Delivery Method

PPT slides and hand writing

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

PEXams (mid-term 30% and final 35%) - 65%

Attendance - 20%

Assignment (Group project 10, pop up quiz 5) - 15%

① Percentage of grade evaluation

Exam	Attendance	Assignment
65 %	20 %	15 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Handout	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview
Second week	Fundamental electromagnetic theory
Third week	Maxwell's equations and electromagnetic wave
Fourth week	Wave and particle nature of lights
Fifth week	Semiconductor concepts and energy bands
Sixth week	pn junctions
Seventh week	ultraviolet photoelectron spectroscopy (UPS).
Eighth week	Mid-term exam
Ninth week	lasers and laser diodes Light emitting diodes (LED) Quantum devices
Tenth week	lasers and laser diodes Light emitting diodes (LED) Quantum devices
Eleventh week	Photovoltaic devices – organic solar cells
Twelfth week	Photovoltaic devices – perovskite solar cells
Thirteenth week	Photovoltaic devices – si solar cells
Fourteenth week	Group project
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	STRUCTURE ANALYSIS ENGINEERING	Course Number	EQB6091001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358294	A weekday / class / lecture room	[08-534:월(7-8A), 화(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

1.To further develop skills in determining reactions and loads on structures.2.To familiarize the student with the basic concepts of truss analysis.3. Learn to derive shear and moment expressions from loading functions.4. Develop a basic understanding of influence lines.5. Learn to compute deflections of beams using direct integration, conjugate beam and energy methods.6. Application of analysis concepts to design.

[2] Course Learning Outcomes

There will be three hour lectures a week. Student attendance is necessary to maximize the learning experience. Lectures will be used for presenting new concepts. Lecture notes will be available for download from the course's Web site. In addition, reading assignments from the course textbook will be given for each lecture. The learning will be aided with E-learning for this course.

[3] Class Delivery Method

Grades will be based on homework assignments given each class period and collected the following class meeting, two quiz and two exams given during the semester on the day specified in the course outline. Letter grades will be awarded on the basis of total scores:

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	0 %	0 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Grades will be based on homework assignments given each class period and collected the following class meeting, two quiz and two exams given during the semester on the day specified in the course outline. Letter grades will be awarded on the basis of total scores:

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Hibbler.R	Publisher	Prentice-Hall, Inc.	Textbook	Structural Analysis	Issued year	1985
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Chajes.A	Publisher	Prentice-Hall, Inc.	Textbook	Structural Analysis	Issued year	1983
(2)	Author	Gere and Timoshenko	Publisher	PWS Publishing co.	Textbook	Structural Mechanics of Material	Issued year	1990
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus, intro
Second week	Types of Structures and Loads
Third week	Analysis of Statically Determinate Structures (1)
Fourth week	Analysis of Statically Determinate Structures (2)
Fifth week	Analysis of Statically Determinate Trusses (1)
Sixth week	Analysis of Statically Determinate Trusses (2)
Seventh week	Internal Loadings Developed in Structural Members (1)
Eighth week	Mid Exam
Ninth week	Internal Loadings Developed in Structural Members (2)
Tenth week	Cables and Arches (1) Cables and Arches (2)
Eleventh week	Influence Lines for Statically Determinate Structures (1)
Twelfth week	Influence Lines for Statically Determinate Structures (2)
Thirteenth week	Analysis of Statically Indeterminate Structures by the Force Method (1)
Fourteenth week	Analysis of Statically Indeterminate Structures by the Force Method (2)
Fifteenth week	Final Exam
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	
	purpose	acquire the ability to do the structural analysis		
	procedure & notice	Each homework will be assigned in class once per week, on average. Selected problems will be graded and full solutions provided the following week.		
	references	main text book		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	COMBUSTION ENGINEERING	Course Number	EQB6066001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 이민철	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358295	A weekday / class / lecture room	[08-534:월(5B-6),수(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

- This lecture is aiming to understand fundamental theory on combustion which is required for the safety engineers.
- This lecture provides profound knowledge on combustion including ignition, thermochemistry, chemical kinetics, combustion emissions, laminar/turbulent flames and thermal engines.

[2] Course Learning Outcomes

- To understand the concept of chemical reactions, basic theory of combustion and working principle of combustion application systems such as a gas turbine for power generation.
- To build up the ability for calculating the adiabatic flame temperature, equilibrium equation and using computer program (TPEquil etc.) as well as analytical derivation.

[3] Class Delivery Method

- Most lecture will be given in the class room by utilizing PPT files which will be uploaded in e-learning website.
- To increase understanding and to enhance interest, educational movies and calculation programs will also be utilized.
- ※ Pre-requisite : Thermodynamics (Basic Thermodynamics will be reviewed in the former part of this lecture. Thereby, it is recommended, not mandatory)
- All lectures will fully be given in online method including exams and submission of assignments due to COVID-19 crisis.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	5 %	0 %	5 %	5 %	0 %	0 %	5 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	0 %	0 %	0 %	0 %	85 %	5 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Stephen R. Turns	Publisher	McGraw-Hill Korea, Inc.	Textbook	An Introduction to Combustion	Issued year	2012 0224
(2)	Author	Cengel	Publisher		Textbook	Thermodynamics, 10th ed.	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	☐ Lecture Outline, Introduction to combustion engineering ☐ Trial run of F-learning e-contents and Preview of Chap 2.1 – (1/2)
Second week	☐ Trial run of F-learning e-contents and Preview of Chap 2.1 – (2/2) ☐ World Energy Usage and Global Warming
Third week	☐ Chap. 2.1 – Stoichiometry ☐ Combustion Definition and Applications
Fourth week	☐ Example 2.2 ☐ Review of Basic Thermodynamics
Fifth week	☐ Chap. 2.1 – Stoichiometry Excel Calculation ☐ Thermochemistry (1)
Sixth week	☐ Chap. 2.1 – Non-stoichiometry Excel Calculation ☐ Thermochemistry (2)
Seventh week	☐ Chap. 2 – Adiabatic Flame Temp. at constant pressure ☐ Summary of chapter 1 and 2 and problem solving
Eighth week	☐ Mid-term Exam
Ninth week	☐ Chap. 2 – Adiabatic Flame Temp. at constant volume ☐ Chemical Equilibrium
Tenth week	☐ Example 2.8 ☐ Chemical Kinetics
Eleventh week	☐ Example 2.9 ☐ Important Chemical Reaction Mechanism
Twelfth week	☐ Example 4.2 ☐ Example 4.3 ☐ Emissions (NO _x , CO, SO _x , and PM) – Production Mechanism, Regulation and Reduction
Thirteenth week	☐ Example 4.4 ☐ Laminar Premixed Flames
Fourteenth week	☐ Invited talk – Professional related to the combustion engineering ☐ Summary of chapter 4 and problem solving
Fifteenth week	☐ Final Exam
Sixteenth week	☐ Final Exam ☐ Lecture Feedback and Evaluation

[7] Assignments

The first assignment	assignment	An Introduction to Combustion, Chap. 2 Exercise	submission date	2026-10-17 Sat
	purpose	To understand fundamental combustion theory		
	procedure & notice	Submit the solution of the given problems.		
	references	An Introduction to Combustion, 3rd Edition		
The second assignment	assignment	An Introduction to Combustion, Chap. 4 Exercise	submission date	2026-12-05 Sat
	purpose	Build up the ability to calculate the adiabatic flame temperature and to obtain equilibrium equations.		
	procedure & notice	Submit the solution of the given problems.		
	references	An Introduction to Combustion, 3rd Edition		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Nuclear Engineering	Course Number	0006733001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-534:목(8B-9)] [ZZ-200:토(0A-0)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

- The importance of the safety of nuclear power plants has been emphasized, especially experiencing TMI, Chernobyl and Fukushima events.
- Considering that in total 24 nuclear power plants has been operated in Korea, it is important for the students majoring the safety engineering to understand the principles of nuclear engineering and to get the lessons learned from previous accidents for the safe use of the nuclear energy.

[2] Course Learning Outcomes

- To understand basic principles of nuclear power
- To acquire general knowledge of nuclear engineering
- To understand safety evaluation methods
- To understand previous accidents and activities to prevent.

[3] Class Delivery Method

- The lecture will be delivered by video
- Online lectures for general nuclear issues with multimedia materials

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

Absolute Evaluation

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J. R. Lamarsh	Publisher	Prentice Hall	Textbook	Introduction to Nuclear Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the course
Second week	Status of Nuclear Power
Third week	Nuclear Reaction
Fourth week	Radiation and Radioactive Material – I
Fifth week	Radiation and Radioactive Material – II
Sixth week	Reactor Types
Seventh week	NPP Heat Generation and Removal
Eighth week	Midterm Exam
Ninth week	Pressurized Water Reactor – I
Tenth week	Pressurized Water Reactor – II
Eleventh week	Nuclear Fuel Cycle
Twelfth week	Radioactive Waste Management
Thirteenth week	Energy Mix
Fourteenth week	Nuclear Accidents
Fifteenth week	Introduction to Nuclear Safety
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	NUCLEAR POWER SAFETY ENGINEERING		Course Number	EQB6030001		
Major / School Year	Dept. of Safety Engineering / 3		completion division /Grade evaluation	/		
Department/Professor	Dept. of Safety Engineering / 김태완		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[08-338:월(5B-6), 수(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

In Korea, there are 24 nuclear power plants in operation and many nuclear application for industrial use. It is very important to understand unique features of nuclear safety in order to utilize the nuclear energy safely.

[2] Course Learning Outcomes

the course aims at

- . understanding the concepts of nuclear safety,
- . introducing terms used in nuclear safety,
- . introducing previous nuclear accidents and lesson learned,
- . understanding safety analysis methodologies,
- . understanding nuclear regulatory systems and activities,
- . understanding method / systems to improve the safety.

[3] Class Delivery Method

- Lecture-based learning

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

Absolute Evaluation

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- . 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- . 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J.C. Lee	Publisher	Wiley	Textbook	Risk and Safety Analysis of Nuclear Systems	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the course
Second week	Concept of Nuclear Safety
Third week	Review of Nuclear Power Plant System
Fourth week	Review of Nuclear Power Plant System
Fifth week	Safety Systems for Design Basis Accidents and Severe Accidents
Sixth week	Objectives and Principles of Nuclear Safety
Seventh week	Nuclear Safety Regulations
Eighth week	Midterm Exam
Ninth week	Review of Major Nuclear Accidents
Tenth week	Deterministic Safety Analysis – I
Eleventh week	Deterministic Safety Analysis – II
Twelfth week	Probabilistic Safety Assessment
Thirteenth week	Severe Accident Phenomenology
Fourteenth week	Various Aspects of Nuclear Safety – Earthquake – Radioactive Waste Management
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CapstoneDesign	Course Number	0005891001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 이민철	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358295	A weekday / class / lecture room	[08-228A: 화(5B-6), 목(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This lecture is aiming to build up the ability to design fire protection system and energy engineering systems especially power generation engines.

Student can learn various design theory, working principle, design concept and planing process of the objects using engineering knowledge such as mathematics, thermodynamics, fluid dynamics, and heat transfer. extinguisher, form extinguishing system, and sprinkler.

[2] Course Learning Outcomes

To understand the design concept and working principle of fire protection systems such as a fire extinguisher, form extinguishing system, and sprinkler.

To understand the design concept and working principle of energy engineering systems such as a pulverized coal boiler, a wind turbine, a gas turbine and a tidal power turbine.

To build ability for engineering design using design tools such as Computer Aided Design, Solid Works and/or Visio.

[3] Class Delivery Method

This lecture will be given by the blended methods of on-line and off-line classes.

In on-line class, basic theory on applied mathematics with easy examples will be explained before the off-line class.

In off-line class, derivation from mathematical modeling to solution methods of engineering problems will be explained by professor, and physical meaning of the solution will be explained using PPT presentation as well as writing on blackboard. To encourage the students participation, the chance to solve and discuss various examples will be provided to students.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	0 %	0 %	50 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	0 %	0 %	0 %	0 %	30 %	40 %

[4] Grading Policies

Exam (Term project evaluation) : 60%

Attendance : 20%

Assignment : 20%

Other score rating directions regarding early leaving, lateness and etc. will be followed by rules and codes of University.

Final term project will cover the evaluation of final exam, and novel ideas will be guided by the professor and encouraged to be patented.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	John Andrews and Nick Jelley	Publisher	Oxford	Textbook	Energy science, 2nd Edition	Issued year	2013 0701
(2)	Author	소방기술사회	Publisher	예문사	Textbook	Fire Protection Engineering Handbook	Issued year	2014 0701
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture outline Introduction to Capstone Design
Second week	Organizing into groups Problem Introduction
Third week	Team building activity, team introduction Previous best practice presentation
Fourth week	Fire detection system
Fifth week	Gas based fire extinguishing system
Sixth week	Water based fire extinguishing system
Seventh week	Energy system thermal power plants (I)
Eighth week	Energy system thermal power plants (II)
Ninth week	Energy system new and renewable energy (I)
Tenth week	Energy system new and renewable energy (II)
Eleventh week	Midterm Presentation
Twelfth week	Fulfillment of term project
Thirteenth week	Fulfillment of term project
Fourteenth week	Final term project and discussion
Fifteenth week	Final term project and discussion
Sixteenth week	Lecture feedback and evaluation Discussion for the patent submission

[7] Assignments

The first assignment	assignment	Warming-up Exercie	submission date	2026-10-02 Fri
	purpose	To build up teamwork and make student be more considered to solve problems		
	procedure & notice			
	references			
The second assignment	assignment	Final Term Project	submission date	2021-12-10 Fri
	purpose	To acheive final goal of this lecture		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CONSTRUCTION SAFETY ENGINEERING	Course Number	EQB6002001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	0328358294	A weekday / class / lecture room	[08-338:수(5B-6)] [08-534:목(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

The goal of this course presents how to establish the prevention and countermeasures by the analysis of safety issues in the construction field.

[2] Course Learning Outcomes

The overall comprehension of the construction safety, corrective measures, the analysis of structure stability

[3] Class Delivery Method

This course focuses on the lecture in class with the intermittent field trip.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	0 %	0 %	0 %	0 %	10 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
90 %	0 %	0 %	0 %	0 %	0 %	0 %	10 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Song Kisang, Lee song, Choi Jaenam	Publisher	kimoondang	Textbook	the construction safety engineering	Issued year	2012
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	the causes of construction accidents the occupational safety and health expenses
Second week	construction material parent metal, stone, synthetic polymer
Third week	basic properties of soil the permeability, compaction, strength of soil
Fourth week	the consolidation, stability of soil the foundation
Fifth week	soft ground
Sixth week	excavation equipment earth moving machinery
Seventh week	mid-term exam
Eighth week	dredging machinery conveying machinery
Ninth week	protective kit soil supports (timbering)
Tenth week	reinforcement work concreting work
Eleventh week	steel frame work crane
Twelfth week	excavation work landslide
Thirteenth week	prevention work electric shock accident
Fourteenth week	demolition(dismantling) work high-place work
Fifteenth week	harbor construction work tunnel work
Sixteenth week	final exam

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	
	purpose			
	procedure & notice	Each homework will be assigned in class once per week, on average. Selected problems will be graded and full solutions provided the following week.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Construction Engineering and Management	Course Number	0004224001
Major / School Year	Dept. of Safety Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358294	A weekday / class / lecture room	[08-338:화(2B-3), 목(2B-3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Evaluating and selection of equipment and methods for construction of projects, including earthmoving, paving, steel and concrete construction, formwork, trenching, cofferdams, rock excavation, tunneling, site preparation and organization. Design of formwork, trench supports, and cofferdams

[2] Course Learning Outcomes

The students will understand the followings:

- (1) Fulfill degree requirements.
- (2) Become familiar with the types of construction equipment and their capabilities.
- (3) Understand the basic principles and terminology of project management and construction methods.
- (4) Skills development for successful job performance, especially communications, both written and verbal.

[3] Class Delivery Method

There will be three hour lectures a week. Student attendance is necessary to maximize the learning experience. Lectures will be used for presenting new concepts. Lecture notes will be available for download from the course's Web site. In addition, reading assignments from the course textbook will be given for each lecture. The learning will be aided with E-learning for this course

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	0 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Peurifoy, R., Schexnayder, C.	Publisher	McGraw-Hill Science	Textbook	Construction planning, equipment, and methods	Issued year	2002
(2)	Author	George Omura, Brian C. Benton	Publisher	JohnWiley&Sons	Textbook	Mastering AutoCAD 2014 and AutoCAD LT 2014: Autodesk Official Press	Issued year	2013
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Harris, F.	Publisher	Prentice Hall	Textbook	Modern Construction and Ground Engineering Equipment & Method	Issued year	1996
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	– Introduction to AutoCAD 2014
Second week	– Exploring the Interface and Creating Your First Drawing
Third week	– Setting Up and Using the Drafting Tools
Fourth week	– Organizing Objects with Blocks and Groups – Keeping Track of Layers and Blocks
Fifth week	– Editing and Reusing Data to Work Efficiently
Sixth week	– Mastering Viewing Tools, Hatches, and External References – Introducing Printing, Plotting, and Layouts
Seventh week	– Understanding Plot Styles & Adding Text to Drawings
Eighth week	Mid-exam
Ninth week	– Introduction to Construction planning, equipment, and methods – Equipment cost & Geotechnical materials
Tenth week	– Compaction and Stabilization – Machine Power (Dozers, Scrapers, Excavators and Finishing Equipment)
Eleventh week	– Trucks and Hauling Equipment & Compressed Air – Drilling Rock and Earth & Blasting Rock
Twelfth week	Aggregate Production
Thirteenth week	Cranes, Draglines and Clamshells
Fourteenth week	Piles and pile-driving equipment & Equipment for pumping water
Fifteenth week	Belt-conveyer systems
Sixteenth week	Final-exam

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	
	purpose	acquire the ability to do scientific approach		
	procedure & notice	the written assignments are due at the beginning of lecture on the due date. Late assignments are penalized 10% for each day late. All written assignment must be clearly and legibly presented. Any numerical answers must include calculations and a description of the logic behind each step.		
	references	main textbook		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	MASS TRANSPORT PHENOMENA	Course Number	0012380001
Major / School Year	Dept. of Energy and Chemical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 이재훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358674	A weekday / class / lecture room	[08-535:화(5B-6),목(2B-3)]
Office hours		Medium of Instruction	ES

[1] Outline / Purpose

본 수업은 화학공학 및 에너지공학 분야에서 발생하는 물질전달 현상을 이해하고, 이를 실제 공정과 연구에 적용하는 데 필요한 기초이론과 해석능력을 습득하는 것을 목적으로 한다. 물질이동의 기본 개념인 확산, 대류, 물질전달계수 및 상간 물질전달을 학습하고, 이를 기체, 액체, 고체 및 다공성 소재 내부에서 발생하는 다양한 전달현상에 적용한다.

학생들은 농도구배에 의한 분자확산, 유체의 흐름에 의한 대류 물질전달, 기체-액체 및 액체-고체 계면에서의 물질이동 원리를 이해하고, 관련 지배방정식과 물질수지를 이용하여 전달속도를 정량적으로 계산한다. 또한 증류, 흡수, 흡착, 건조, 추출, 막분리 등 화학 공정에서 널리 활용되는 분리기술을 물질전달의 관점에서 해석한다.

이를 통해 학생들이 단순히 공식을 적용하는 수준을 넘어 실제 공정에서 발생하는 물질이동 문제를 정의하고, 적절한 가정과 경계조건을 설정하며, 공학적으로 타당한 해를 도출할 수 있도록 한다. 나아가 에너지, 환경, 바이오, 반도체 및 고분자 분리막 분야에서 물질전달 이론이 어떻게 활용되는지를 이해함으로써 전공 연구와 산업 현장에 적용할 수 있는 기초역량을 함양한다.

[2] Course Learning Outcomes

물질전달의 기초개념 이해: 농도, 몰분율, 질량분율, 몰유속 및 질량유속의 정의를 이해하고, 기준좌표계에 따른 유속과 유속성분의 차이를 구분한다.

분자확산 이론 학습: Fick의 제1법칙과 제2법칙을 바탕으로 정상상태 및 비정상상태에서의 확산현상을 이해하고, 기체, 액체 및 고체 내부의 확산속도를 계산한다.

지배방정식의 수립과 해석: 미분 물질수지와 보존법칙을 이용하여 물질전달 지배방정식을 유도하고, 평판, 원통 및 구형 좌표계에서 적절한 경계조건을 적용하여 해석한다.

대류 물질전달 이해: 유체 흐름과 물질전달의 관계를 학습하고, 경계층, 물질전달계수 및 무차원수의 의미를 이해한다. Reynolds 수, Schmidt 수 및 Sherwood 수를 활용하여 물질전달 상관식을 적용한다.

상간 물질전달 해석: 기체-액체, 액체-액체 및 유체-고체 계면에서 발생하는 물질전달을 이해하고, 막이론, 전체 물질전달계수 및 저항 직렬모델을 이용하여 전달속도를 계산한다.

화학공정 적용능력 배양: 증류, 가스흡수, 액-액 추출, 흡착, 건조 및 막분리 공정의 기본원리를 물질전달 관점에서 이해하고, 각 공정의 성능에 영향을 미치는 주요 변수를 분석한다.

산업 및 연구사례 분석: 수전해, 연료전지, 이산화탄소 포집, 기체분리막, 수처리막, 배터리, 바이오공정 및 반도체 제조공정에서의 물질이동 사례를 조사하고 분석한다.

공학적 문제해결 능력 향상: 실제 공정조건을 단순화하여 모델을 수립하고, 단위해석, 차원해석 및 수치계산을 통해 결과의 타당성을 검토하는 능력을 기른다.

[3] Class Delivery Method

본 수업은 이론강의, 예제문제 풀이, 팀별 학습활동 및 산업응용 사례분석을 병행하여 진행한다. 이론강의에서는 물질전달의 기본개념, 확산방정식, 대류 물질전달, 상간 물질전달 및 분리공정의 원리를 단계적으로 학습한다. 각 주제별로 기본식의 유도과정을 설명하고, 식에 포함된 물리적 의미와 적용조건을 함께 다룬다.

수업 중에는 기체와 액체의 확산, 증발, 용해, 흡수, 건조 및 막투과와 관련된 대표 예제를 풀이한다. 학생들은 문제에 주어진 조건을 분석하고, 물질수지, 좌표계, 경계조건 및 적절한 상관식을 선택하여 풀이과정을 완성한다. 단순 계산뿐만 아니라 계산결과가 실제 물리현상과 부합하는지를 토론하도록 한다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점

· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction of Mass Transfer
Second week	Fundamentals of Mass Transfer (Chapter 24)
Third week	Fundamentals of Mass Transfer (Chapter 24)
Fourth week	Differential Equations of Mass Transfer (Chapter 25)
Fifth week	Steady-State Molecular Diffusion (Chapter 26)
Sixth week	Steady-State Molecular Diffusion (Chapter 26)
Seventh week	Unsteady-State Molecular Diffusion (Chapter 27)
Eighth week	Mid-term
Ninth week	Convective Mass Transfer (Chapter 28)
Tenth week	Mass transfer Equipment (Chapter 29)
Eleventh week	Distillation: Separation by Volatility Difference
Twelfth week	Gas Absorption and Stripping: Separation by Solubility Difference
Thirteenth week	Adsorption: Separation by Surface Affinity
Fourteenth week	Membrane Separation: Separation by Selective Transport
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Energy Engineering		Course Number	0010917001			
Major / School Year	Dept. of Energy and Chemical Engineering	/ 4	completion division / Grade evaluation	/			
Department/Professor	Dept. of Energy and Chemical Engineering	/ 노윤호	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number	A weekday / class / lecture room		[05-204:월(8B-9)] [08-535:목(8B-9)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

에너지공학분야의 산업 및 연구 최신 현황을 학습하여 이를 바탕으로 진로를 설계하는 것을 목적으로 한다.

[2] Course Learning Outcomes

- 산학연 전문가의 초청 세미나를 듣고 관련 내용을 학습함
- 관심있는 에너지공학분야의 주제를 선정하여 심화학습을 함

[3] Class Delivery Method

초청 세미나를 듣고 관련 내용을 토론했다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Seminar 1
Third week	Seminar 2
Fourth week	Seminar 3
Fifth week	Seminar 4
Sixth week	Seminar 5
Seventh week	Midterm discussion
Eighth week	Report
Ninth week	Seminar 7
Tenth week	Seminar 8
Eleventh week	Seminar 9
Twelfth week	Seminar 10
Thirteenth week	Seminar 11
Fourteenth week	Final presentation
Fifteenth week	Final presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Machine Learning for Chemical Engineering	Course Number	0010922001
Major / School Year	Dept. of Energy and Chemical Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 김종우	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[08-535:월(5B-6),수(1-2A)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

The purpose of this course is to learn the basics of probability, machine learning, and deep learning, and apply them to solve various problems in the field of chemical engineering.

[2] Course Learning Outcomes

- Probability basics
- Linear regression and classification
- Components and training of deep neural networks
- Convolutional neural networks, recurrent neural networks, generative models
- Chemical Engineering Applications

[3] Class Delivery Method

- Classes are lecture-based, with programming labs to reinforce conceptual understanding
- Solve real-world problems in chemical engineering through group projects

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Lecture notes	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Ian Goodfellow et al.	Publisher	MIT Press	Textbook	Deep Learning	Issued year	2016
(2)	Author	Aston Zhang et al.	Publisher	Cambridge University Press	Textbook	Dive into deep learning (https://www.d2l.ai/)	Issued year	2023
(3)	Author	Gareth James et al.	Publisher	Springer	Textbook	An Introduction to Statistical Learning with Applications in Python	Issued year	2023
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Machine Learning
Second week	Elements of Probability
Third week	Random Variables and Expectation
Fourth week	Normal Distribution and Sampling Statistics
Fifth week	Linear Regression
Sixth week	Linear Classification
Seventh week	Neural Networks and Backpropagation
Eighth week	Mid-term report
Ninth week	Convolutional Neural Networks
Tenth week	Training Neural Networks
Eleventh week	Recurrent Neural Networks
Twelfth week	Attention and Transformers
Thirteenth week	Unsupervised Learning
Fourteenth week	Unsupervised Learning
Fifteenth week	Final term project
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGINEERING MATHEMATICS(1)	Course Number	0006700001
Major / School Year	Department of Biomedical& Robotics Engineering / 1	completion division /Grade evaluation	/
Department/Professor	Department of Biomedical& Robotics Engineering / 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-539:월(7-8A),금(2B-3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course work (Advanced Engineering Mathematics) will cover the basic concepts of second- order linear ordinary differential equations. In order to achieve the main goals of this course work, the student will study the basic concepts of "System Dynamics" and its relevance with the ordinary differential equations. After the end of 2nd semester, the student will acquire the basic concepts of ordinary differential equations and know the various methods to solve multiple types of mathematical formulations.

[2] Course Learning Outcomes

1. Understand the relationship of the ordinary differential equations with the dynamics of mechanical systems
2. Know how to solve the given differential equations related to the motions of mechanical systems
3. Undertand and use Laplace transform to solve the ordinary differential equations

[3] Class Delivery Method

Lecture using PPT files and showing the relevant examples and problems

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	20 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1. Construct the mathematical formulations with ordinary differential equations from the given mechanical system
2. Understand multiple methods to solve the various types of ordinary differential equations
3. Solve the ordinary differential equations along with different conditions by examing the characteristics of input functions

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Erwin Kreyszig	Publisher	Wiley	Textbook	Advanced Engineering Mathematics	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1. General concepts of system in mechanical engineering 1.1. Basic concepts of system 1.2. System modeling
Second week	2. Second– order linear ordinary differential equations (ODEs) 2.1. Basic concepts of physical oscillation
Third week	2. Second– order linear ordinary differential equations (ODEs) 2.2. Homogeneous linear ODEs with constant coefficients
Fourth week	2. Second– order linear ordinary differential equations (ODEs) 2.2. Homogeneous linear ODEs with constant coefficients
Fifth week	2. Second– order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Sixth week	2. Second– order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Seventh week	2. Second– order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Eighth week	2. Second– order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Ninth week	2. Second– order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application 2.4. Modeling: Forced oscillation
Tenth week	2. Second– order linear ordinary differential equations (ODEs) 2.4. Modeling: Forced oscillation
Eleventh week	2. Second– order linear ordinary differential equations (ODEs) 2.4. Modeling: Forced oscillation 3. Laplace Transform 3.1. Basic concepts of Laplace transform
Twelfth week	3. Laplace Transform 3.1. Basic concepts of Laplace transform
Thirteenth week	3. Laplace Transform 3.1. Basic concepts of Laplace transform 3.2. Laplace transform and its application
Fourteenth week	3. Laplace Transform 3.2. Laplace transform and its application
Fifteenth week	3. Laplace Transform 3.2. Laplace transform and its application
Sixteenth week	3. Laplace Transform 3.2. Laplace transform and its application

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Dynamics		Course Number	0001844005			
Major / School Year	Department of Biomedical& Robotics Engineering / 1		completion division / Grade evaluation	/			
Department/Professor	Department of Biomedical& Robotics Engineering / 박기원		Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[08-539:목(5)(6),토(2)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Digital logic circuits	Course Number	0009455001
Major / School Year	Department of Biomedical& Robotics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Department of Biomedical& Robotics Engineering / 조영욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[08-539:월(1-2A),목(8B-9)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

우리가 매일 사용하는 스마트폰, 컴퓨터, 전자기기들은 모두 0과 1로 작동합니다. 이 0과 1로 모든 계산과 판단을 하도록 만들어주는 똑똑한 회로가 바로 디지털 논리회로입니다. 이 수업에서는 디지털 시스템의 가장 기초적인 구성 요소들을 배우고, 직접 회로를 설계하고 실습하면서, 전자기기가 어떻게 "생각"하고 "판단"하는지 이해하게 됩니다.

강의 주요 내용

- 0과 1로 계산하는 법: 컴퓨터는 왜 이진수만 쓸까?
- 기본 논리 게이트: 저 0과 1을 가지고 gate를 이용해서 논리 만들기. AND, OR, NOT은 어떻게 동작할까?
- 복잡한 회로 만들기: 여러 논리 게이트를 조합해서 조건을 판단하는 회로를 만들 수 있다
- 기억하는 회로: 지금 상태를 저장하고, 다음 동작을 결정하는 회로는 어떻게 만들까?
- 지금까지 배운 복잡한 회로 + 기억하는 회로를 이용해 '시스템' 만들어보기

[2] Course Learning Outcomes

- 이진수와 논리 연산에 익숙해진다

이진수, 8진수, 16진수 체계와의 변환을 정확히 수행할 수 있다.

부울대수(Boolean Algebra)의 개념을 이해하고, 논리식 간소화를 수행할 수 있다.

- 기본 논리 게이트의 동작을 이해하고 회로로 표현할 수 있다

AND, OR, NOT, NAND, NOR, XOR 게이트의 동작을 진리표, 논리식, 회로도로 설명할 수 있다.

논리 게이트들을 조합하여 주어진 조건을 만족하는 회로를 설계할 수 있다.

- 조합논리회로를 설계하고 분석할 수 있다

반가산기(Half Adder), 전가산기(Full Adder), 디코더, 인코더, 멀티플렉서(MUX), 디멀티플렉서 등의 회로를 설계하고 동작을 예측할 수 있다.

- 순차논리회로의 개념을 이해하고 구현할 수 있다

플립플롭(Flip-Flop: D, T, JK 등)의 동작 원리를 이해하고, 이를 기반으로 레지스터, 카운터 등의 순차 회로를 설계할 수 있다.

클럭 신호와 상태의 개념, 시간적 동작(sequence)을 다룰 수 있다.

- 유한상태기계(FSM)의 개념을 이해하고 적용할 수 있다

상태도(State Diagram)를 기반으로 입력에 따라 상태가 변하는 논리 흐름을 설계할 수 있다.

FSM을 활용하여 간단한 제어 논리를 구현할 수 있다.

- 디지털 회로 설계 및 검증 능력을 기른다

논리회로 시뮬레이터(예: Logisim, Multisim, Quartus 등)를 사용해 회로를 구성하고 동작을 검증할 수 있다.

간단한 디지털 시스템을 설계하고, 결과를 분석하여 오류를 찾아 수정할 수 있다.

- 디지털 논리 회로가 실제 전자시스템에 어떻게 적용되는지 이해한다

마이크로프로세서, 메모리, 입출력장치 등의 내부 동작이 논리회로로 구성된다는 것을 이해한다.

실생활 전자기기에서 논리회로가 사용되는 예시(예: 계산기, 엘리베이터 제어, 자동문 등)를 설명할 수 있다.

[3] Class Delivery Method

★★★수업은 영어 강의를 원칙으로 합니다★★★

그러나 강의 첫 날 학생들과의 설문조사를 통해 수업의 주인인 학생들이 원하는 방향으로 유동적으로 조절해나갈 계획입니다
이 수업 역시 많은 생각을 하고 난 뒤 논리적으로 문제를 해결해야하는 경우가 생깁니다. 학생들의 멘탈이 제일 중요합니다

④ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

④ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Thomas L. Floyd	Publisher	Pearson	Textbook	Digital Fundamentals	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – Basics for digital logic – Suggested reading: Ch 1
Second week	Number system, operations, and codes – Decimal, binary, octal, hexadecimal numbers – Decimal to binary conversion – Suggested reading: Ch. 2
Third week	Number system, operations, and codes – Arithmetic operations – Codes – Suggested reading: Ch. 2
Fourth week	Logic gates – Basic logic gates and their truth table – Suggested reading: Ch 3
Fifth week	Boolean algebra and logic simplification – Boolean operation and law of Boolean algebra – DeMorgan's theorem – Logic simplification using Boolean algebra – Suggested reading: Ch 4.1–Ch 4. 7
Sixth week	Logic simplification and combinational logic analysis – Karnaugh map – Implementing combinational logic – Suggested reading: Ch 4.8–Ch 4.10, Ch. 5
Seventh week	Functions of combinational logic – Half and full adder – Look-ahead carry adder – Suggested reading: Ch 6
Eighth week	Midterm Exam
Ninth week	Functions of combinational logic – Encoder/decoder – Multiplexer/demultiplexer – Suggested reading: Ch 6
Tenth week	Latches, flip-flops and timers – Latches – Flip-flops – Suggested reading: Ch7
Eleventh week	Shift registers – Shift register operations – Shift register counters – Suggested reading: Ch. 8
Twelfth week	Counters – Finite state machine – Asynchronous counters – Suggested reading: Ch 9

Thirteenth week	Counters – Synchronous counters – Design of synchronous counters – Suggested reading: Ch 9
Fourteenth week	Programmable logic and data storage – Programmable logic – RAM/ROM – Suggested reading: Ch 10–11
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	System Dynamics 1		Course Number	0009449001		
Major / School Year	Department of Biomedical& Robotics Engineering / 2		completion division / Grade evaluation	/		
Department/Professor	Department of Biomedical& Robotics Engineering / 윤종윤		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	A weekday / class / lecture room		[08-539:수(7-8A),금(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course will cover the series of methods to build a mathematical formulation based on the dynamic behaviors of variety of practical systems such as mechanical, electrical, fluid and thermal systems. Students will understand the approaches about how to examine the dynamic phenomena and extract the 2nd order ordinary differential equations from the given practical systems.

[2] Course Learning Outcomes

1. Study the fundamental knowledge to construct the mathematical formulation from the given practical system
2. Understand the basic elements for the relevant systems such as mechanical, electrical, fluid and thermal systems
3. Extend the ability to examine the basic mechanism of the given system based on the analytical formulation

[3] Class Delivery Method

Lecture will be posted on the e-learning center.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	0 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

1. Understand the basic mechanism from the given practical systems such as mechanical, electrical, fluid and thermal systems
2. Know the fundamental procedures to construct the mathematical formulations from the given systems
3. Analyze the found ordinary differential equations in terms of state space and transfer functions

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	R.L. Woods, K.L. Lawrence	Publisher	Prentice Hall	Textbook	Modeling and Simulation of Dynamic Systems	Issued year	1997
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	C.M. Close, D.K. Frederick	Publisher	John Wiley & Sons	Textbook	Modeling and Analysis of Dynamic Systems	Issued year	2001
(2)	Author	Ogata	Publisher	Pearson	Textbook	System Dynamics	Issued year	2015
(3)	Author	Giorgio Rizzoni	Publisher	McGraw-Hill	Textbook	Principles and Applications of Electrical Engineering	Issued year	2015
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	* Introduction to Modeling and Simulation – Fundamental concepts of system dynamics – Definitions related to dynamic systems – Modeling of dynamic systems
Second week	* Models for Dynamic Systems and Systems Similarity – Formulation of models for engineering systems – Solution of the differential equations * Modeling of Engineering Systems: Mechanical Systems
Third week	* Modeling of Engineering Systems: Mechanical Systems – Modeling translational system – Examples of translational systems
Fourth week	* Modeling of Engineering Systems: Mechanical Systems – Modeling rotational system – Examples of rotational systems
Fifth week	* Modeling of Engineering Systems: Mechanical Systems – Systems of Combined Translational and Rotational Elements – Examples of combined systems
Sixth week	* Modeling of Engineering Systems: Electrical Systems – Basic concepts and elements – Passive circuit analysis
Seventh week	* Modeling of Engineering Systems: Electrical Systems – Passive circuit analysis – Examples of passive circuits
Eighth week	* Modeling of Engineering Systems: Electrical Systems – Examples of passive circuits – 1st order and 2nd order circuits
Ninth week	* Modeling of Engineering Systems: Electrical Systems – 1st order and 2nd order circuits – Active circuit analysis: basic concepts of op-amp
Tenth week	* Modeling of Engineering Systems: Electrical Systems – Active circuit analysis: Op-amp in the closed-loop models
Eleventh week	* Modeling of Engineering Systems: Electrical Systems – Examples of op-amp circuits – 1st order and 2nd order op-amp circuits
Twelfth week	* Modeling of Engineering Systems: Fluid Systems – Basic concepts and elements – Introduction to the Taylor's expansion
Thirteenth week	* Modeling of Engineering Systems: Fluid Systems – Analysis of fluid systems – Liquid-level systems
Fourteenth week	* Modeling of Engineering Systems: Thermal Systems – Basic concepts and elements – Examples of thermal systems
Fifteenth week	* Modeling of Engineering Systems: Electro-Mechanical Systems – Basic concepts and elements of electric motors – Examples of electro-mechanical systems
Sixteenth week	* Modeling of Engineering Systems: Mixed Discipline Systems – Fluid-mechanical systems – Electro-hydraulic position servo system

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ELECTROMAGNETIC THEORY		Course Number	EK06075001		
Major / School Year	Department of Biomedical& Robotics Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Department of Biomedical& Robotics Engineering	/ 우현명	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[08-539:화(5B-6),수(8B-9)]			
Office hours	Wed 15:00 - 16:00		Medium of Instruction	EN		

[1] Outline / Purpose

This course provides a rigorous foundation in classical electromagnetics, serving as a critical cornerstone for advanced engineering and applied physics. Beginning with a comprehensive review of vector calculus and orthogonal coordinate systems, the curriculum systematically establishes the theoretical frameworks of electrostatics and magnetostatics in both vacuum and material media. Students will engage with fundamental governing principles—including Coulomb's, Gauss's, Biot-Savart, and Ampère's laws—to mathematically formulate and analyze electric and magnetic phenomena. The course ultimately culminates in the derivation and physical interpretation of time-varying fields and Maxwell's equations, equipping students with the essential analytical competencies required to model complex electromagnetic interactions in modern physical systems.

[2] Course Learning Outcomes

1. Apply advanced vector calculus and orthogonal coordinate transformations to rigorously quantify spatially distributed physical quantities.
2. Formulate and resolve complex electrostatic field problems involving boundary conditions, dielectrics, and capacitance using scalar potentials and Gauss's Law.
3. Analyze magnetostatic systems by applying the Biot-Savart law and Ampère's circuital law to ascertain magnetic flux density and related boundary phenomena.
4. Evaluate the macroscopic electromagnetic properties of various material media, including conductors, dielectrics, and magnetic materials, in relation to energy storage and field interactions.
5. Synthesize the principles of static fields to comprehend time-varying electromagnetic phenomena, culminating in a profound physical and mathematical understanding of Maxwell's equations.

[3] Class Delivery Method

The primary mode of instruction will be comprehensive slide-based lectures designed to systematically deliver core theoretical concepts and complex mathematical derivations.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm: 40%

Final: 40%

Attendance: 20%

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	William H. Hayt, JR	Publisher	McGraw Hill	Textbook	Engineering Electromagnetics (9E)	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	David K. Cheng	Publisher	Prentice Hall	Textbook	Field and Wave Electromagnetics (2E)	Issued year	1989
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and Vector Analysis Suggested reading: Ch. 1.1–Ch.1.4
Second week	Vector analysis and coordinate systems Suggested reading: Ch. 1.5–Ch. 1.9
Third week	Coulomb's law and electric field intensity Suggested reading: Ch. 2
Fourth week	Electric flux density, Gauss's law, and divergence Suggested reading: Ch. 3.1–Ch. 3.3
Fifth week	Gauss's law in differential form and divergence Suggested reading: Ch. 3.4–Ch. 3.6
Sixth week	Energy and potential Suggested reading: Ch. 4.1–Ch.4.4
Seventh week	Potential gradient and electric dipole Suggested reading: Ch. 4.5–Ch.4.8
Eighth week	Midterm exam
Ninth week	Conductors and dielectrics Suggested reading: Ch. 5
Tenth week	The boundary condition for perfect dielectric materials, Capacitance Suggested reading: Ch. 6
Eleventh week	Steady magnetic field (Biot–Savart law, Amperes circuital law, Stokes theorem) Suggested reading: Ch. 7
Twelfth week	Magnetic forces, Materials, and inductance Suggested reading: Ch. 8
Thirteenth week	Magnetic forces, Materials, and inductance Suggested reading: Ch. 8
Fourteenth week	Time-varying fields and Maxwell's equation Suggested reading: Ch. 9
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	DIGITAL SIGNAL PROCESSING	Course Number	EPB6037002
Major / School Year	Department of Biomedical& Robotics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Department of Biomedical& Robotics Engineering / 우현명	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[08-535:화(8B-9),수(5B-6)]
Office hours	Wed 15:00 - 16:00	Medium of Instruction	EN

[1] Outline / Purpose

This course provides a mathematically rigorous and comprehensive introduction to the fundamental principles of Digital Signal Processing (DSP). The theoretical foundation of this material is deeply analytical: because a strong grasp of continuous-time (analog) signals is mandatory for mastering DSP paradigms, the first third of the course is strictly dedicated to an intensive review of prerequisite mathematical techniques. This initial phase demands significant fluency in executing complex mathematical operations and theoretical proofs, including Fourier analysis, convolution integrals, and the Laplace transform. The remaining two-thirds of the curriculum transition into discrete-time domains, focusing on essential theoretical frameworks, mathematically exhaustive system analysis, and the analytical design of digital filters (FIR and IIR). Throughout the semester, students will be continuously challenged to comprehend and synthesize these concepts through heavy mathematical formulations and rigorous step-by-step algebraic derivations.

[2] Course Learning Outcomes

1. Mathematically define and rigorously manipulate complex continuous-time and discrete-time signals.
2. Analyze linear time-invariant (LTI) systems by executing complex analytical proofs utilizing convolution and transform theory across both continuous and discrete domains.
3. Understand and mathematically formulate the deep relationship between the Fourier Series (FS) and Fourier Transform (FT), alongside meticulously quantifying energy, power, amplitude, and phase spectra.
4. Apply the z-Transform for profound theoretical discrete system analysis and rigorously derive the mathematical foundations of sampling theory.
5. Design and analytically evaluate foundational Finite Impulse Response (FIR) and Infinite Impulse Response (IIR) digital filters through strict mathematical synthesis.

[3] Class Delivery Method

Class sessions will utilize presentation slides containing strategic "blanks". Students are expected to actively execute and fill in these blanks—which consist of critical equations, extensive step-by-step mathematical derivations, and core conceptual keywords—in real-time during the lecture.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	ALAN V. OPPENHEIM	Publisher	PRENTICE HALL	Textbook	(DSP) Oppenheim, Schafer, Discrete-Time Signal Processing, 3rd Edition.	Issued year	
(2)	Author	ALAN V. OPPENHEIM	Publisher	PRENTICE HALL	Textbook	(S&S) Oppenheim, Willsky, Nawab, Signals and Systems, 2nd Edition.	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Fundamentals of Signals and Systems Session 1: Course Introduction & Overview of Digital Signal Processing [DSP Ch 1: Introduction]. Basic Signal Terminology, Signal Energy, and Power [S&S Ch 1.1]. Session 2: Transformations of the Independent Variable, Exponential/Sinusoidal Signals, and LTI Systems Intro [S&S Ch 1.2–1.3, 1.5].
Second week	Convolution and Fourier Series Session 3: Continuous-Time LTI Systems: The Convolution Integral and System Properties [S&S Ch 2.2–2.3]. Session 4: Fourier Series Representation of Continuous-Time Periodic Signals [S&S Ch 3.3].
Third week	The Continuous-Time Fourier Transform (CTFT) Session 5: The CTFT: Development from FS, Convergence, and Aperiodic Signals [S&S Ch 4.1–4.3]. Session 6: Properties of the CTFT: The Convolution Property and The Multiplication (Windowing) Property [S&S Ch 4.4–4.5].
Fourth week	Spectral Analysis and Laplace Transform Session 7: The Magnitude-Phase Representation of the Fourier Transform [S&S Ch 6.1]. Session 8: The Laplace Transform: Region of Convergence, Inverse, and Properties [S&S Ch 9.1–9.3, 9.5].
Fifth week	Discrete-Time Signals and Systems Session 9: Discrete-Time Signals and Systems: Memoryless, Linear, Time-Invariant, and Causality [DSP Ch 2.1–2.2]. Session 10: LTI Systems, Linear Constant-Coefficient Difference Equations [DSP Ch 2.3–2.5].
Sixth week	The DTFT and z-Transform Session 11: Representation of Sequences by Fourier Transforms (DTFT) and Symmetry Properties [DSP Ch 2.7–2.8]. Session 12: The z-Transform: Region of Convergence and Properties [DSP Ch 3.1–3.2].
Seventh week	z-Transform Applications Session 13: The Inverse z-Transform (Partial Fraction Expansion) and Properties [DSP Ch 3.3–3.4]. Session 14: z-Transforms and LTI Systems [DSP Ch 3.5].
Eighth week	MIDTERM EXAMINATIONS
Ninth week	Sampling Theory Session 17: Periodic Sampling of Continuous-Time Signals and Frequency-Domain Representation (Aliasing) [DSP Ch 4.1–4.2]. Session 18: Reconstruction of a Bandlimited Signal and Discrete-Time Processing of Continuous-Time Signals [DSP Ch 4.3–4.4].
Tenth week	Transform Analysis of LTI Systems Session 19: The Frequency Response of LTI Systems (Phase and Group Delay) [DSP Ch 5.1]. Session 20: System Functions for Rational Systems and Relationship Between Magnitude and Phase [DSP Ch 5.2–5.4].
Eleventh week	Advanced System Analysis and Structures Session 21: All-Pass Systems and Systems with Linear Phase [DSP Ch 5.5, 5.7.1]. Session 22: Structures for Discrete-Time Systems: Block Diagram Representation and Basic Structures for IIR Systems (Direct/Cascade/Parallel) [DSP Ch 6.1, 6.3].
Twelfth week	FIR Structures and Filter Design Introduction Session 23: Basic Network Structures for FIR Systems [DSP Ch 6.5]. Session 24: Filter Design Techniques: Introduction and Filter Specifications [DSP Ch 7.0–7.1].
Thirteenth week	IIR Filter Design Session 25: Design of Discrete-Time IIR Filters from Continuous-Time Filters (Impulse Invariance, Bilinear Transformation) [DSP Ch 7.2]. Session 26: Examples of IIR Filter Design (Butterworth, Chebyshev, Elliptic) [DSP Ch 7.3].
Fourteenth week	FIR Filter Design Session 27: Design of FIR Filters by Windowing [DSP Ch 7.5]. Session 28: Optimum Approximations of FIR Filters (Overview) [DSP Ch 7.7] and Course Wrap-up.
Fifteenth week	FINAL EXAMINATIONS
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The second assignment	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Robotics		Course Number	0001865001		
Major / School Year	Department of Biomedical& Robotics Engineering / 3		completion division / Grade evaluation	/		
Department/Professor	Department of Biomedical& Robotics Engineering / 김우용		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	A weekday / class / lecture room		[08-539:수(2B-3)] [09-224:목(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is an introduction to the field of robotics.

This course covers the manipulator, which is widely used in industries.

For the manipulator, the course encompasses the study of homogeneous transformations, forward and inverse kinematics of robotic manipulators, differential kinematic equations, the manipulator Jacobian, and force relations.

After this class, students will be able to understand how the robot system works and how we can control robot systems.

[2] Course Learning Outcomes

By the end of this course, the students will understand the basic concepts and theories governing the field of robotics.

[3] Class Delivery Method

This course will be delivered using a blackboard based on weekly lecture notes.

Students are encouraged to print and read the uploaded lecture notes before the class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Exams (midterm + final) 60

Attendance 20 (mandatory)

Assignment 20

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	John J. Craig	Publisher	Pearson	Textbook	Introduction to robotics, fourth edition	Issued year	
(2)	Author	Mark W. Spong	Publisher	Wiley	Textbook	Robot modeling and control, second edition	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and basics of matrix operations
Second week	Coordinate transformation 1
Third week	Coordinate transformation 2
Fourth week	Manipulator forward kinematics 1
Fifth week	Manipulator forward kinematics 2
Sixth week	Manipulator inverse kinematics 1
Seventh week	Manipulator inverse kinematics 2
Eighth week	Midterm
Ninth week	Jacobian: velocity and static forces 1
Tenth week	Jacobian: velocity and static forces 2
Eleventh week	Trajectory generation 1
Twelfth week	Trajectory generation 2
Thirteenth week	Manipulator dynamics 1
Fourteenth week	Manipulator dynamics 2
Fifteenth week	Linear Control of Manipulators
Sixteenth week	Final

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Robot Actuator Control		Course Number	0012389001		
Major / School Year	Department of Biomedical& Robotics Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Department of Biomedical& Robotics Engineering	/ 김우용	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[09-224:수(7-8A),목(8B-9)]			
Office hours			Medium of Instruction	ES		

[1] Outline / Purpose

This course provides students with a fundamental understanding of electric motors used in robotic actuators and basic linear control techniques for motor-driven systems. The course begins with the modeling and conventional feedback control of DC motors and introduces frequency-response analysis, including Bode plots, stability margins, and the Nyquist stability criterion.

The course then extends to state-space modeling and modern control techniques. Students will learn how to analyze linear dynamic systems using state variables, eigenvalues, controllability, and observability. Based on these concepts, students will design state-feedback controllers and state observers for motor control systems.

Throughout the course, theoretical concepts will be applied to DC motor speed and position control using MATLAB/Simulink. Particular emphasis is placed on connecting transfer-function-based frequency-domain analysis with state-space-based controller and observer design.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Explain the operating principles and dynamic characteristics of electric motors used in robotic actuators.
- 2) Derive transfer-function and state-space models of DC motor systems.
- 3) Analyze the time-domain and frequency-domain characteristics of a given plant.
- 4) Construct and interpret Bode and Nyquist plots for linear control systems.
- 5) Evaluate closed-loop stability using gain margin, phase margin, and the Nyquist stability criterion.
- 6) Analyze the eigenvalues, stability, controllability, and observability of a state-space model.
- 7) Design a state-feedback controller using the pole-placement method.
- 8) Design reference-tracking and integral state-feedback controllers for motor control systems.
- 9) Design a Luenberger state observer for unmeasured state estimation.
- 10) Implement and evaluate observer-based state-feedback control systems using MATLAB and Simulink.

[3] Class Delivery Method

The course will be delivered through lectures based on instructor-provided lecture materials and hands-on MATLAB/Simulink exercises.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Katsuhiko Ogata	Publisher		Textbook	Modern Control Engineering	Issued year	
(2)	Author	Chi-Tsong Chen	Publisher		Textbook	Linear System Theory and Design	Issued year	
(3)	Author	김상훈	Publisher		Textbook	모터제어	Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Robot Actuator Control
Second week	DC Motor Modeling
Third week	Fundamental Motor Control
Fourth week	Frequency-Response Analysis
Fifth week	Stability Margins
Sixth week	Nyquist Stability Criterion
Seventh week	Frequency-Domain Motor-Control Analysis
Eighth week	Midterm Examination
Ninth week	State-Space Modeling
Tenth week	State Response and Stability
Eleventh week	Controllability and State Feedback
Twelfth week	Reference Tracking and Integral Control
Thirteenth week	Observability and State Observers
Fourteenth week	Observer-Based State Feedback 1
Fifteenth week	Observer-Based State Feedback 2
Sixteenth week	Final Examination

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Machine Learning	Course Number	0012384001
Major / School Year	Department of Biomedical& Robotics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Department of Biomedical& Robotics Engineering / 정현두	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-272:월(2B-3)] [08-539:화(4-5A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course introduces the fundamental concepts, principles, and major algorithms of machine learning. The course focuses primarily on theoretical understanding, including supervised and unsupervised learning, model training, performance evaluation, and basic neural networks. It is designed to provide the essential background required for more advanced courses in deep learning and artificial intelligence. Selected coding examples and exercises using Python may be included to support the understanding of key concepts, but programming implementation is not the main focus of the course.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

- Understand the fundamental principles of machine learning and deep learning.
- Implement machine learning algorithms using Python and Google Colab.
- Preprocess data, train models, and evaluate model performance.
- Apply CNN and RNN/LSTM models to image and sequential data.
- Develop and present a machine learning project using real-world datasets.

[3] Class Delivery Method

This course is primarily delivered through face-to-face lectures combining theoretical concepts with practical programming exercises. Up to one-third of the course may be conducted online when appropriate. Online sessions will primarily focus on coding laboratories and code review sessions using Google Colab, allowing students to gain hands-on experience in implementing machine learning and deep learning models. Depending on the course schedule and learning objectives, some theoretical lectures may also be delivered online.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	15 %	0 %	25 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm: 30%

Final: 40%

Project: 10%

Attendance: 20%

Notes:

- The course project may include team presentations and peer evaluation.
- Depending on the course progress and schedule, the project presentation may be included or omitted.
- If the project is not conducted, the project grade (10%) will be reallocated to the Midterm Exam, resulting in the following grading policy: Midterm 40%, Final 40%, Attendance 20%.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Aurélien Géron	Publisher	O'Reilly	Textbook	Hands on Machine LEarning	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Yaser Abu-Mostafa	Publisher		Textbook	Learning From Data	Issued year	
(2)	Author	Christopher Bishop	Publisher		Textbook	Pattern Recognition and Machine Learning	Issued year	
(3)	Author	Christopher Bishop	Publisher		Textbook	Deep Learning	Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Machine Learning • Course overview • What is Machine Learning? • Types of Machine Learning • Applications and challenges
Second week	End-to-End Machine Learning Project (Part I) • The ML workflow • Exploring the California Housing dataset • Data visualization and feature exploration
Third week	End-to-End ML Project (Part II) & Coding Lab • Google Colab and Python basics (Online) • NumPy, Pandas, Matplotlib • Data preprocessing and Scikit-learn pipelines
Fourth week	Classification • Binary classification • Multiclass classification • Performance evaluation metrics
Fifth week	Training Machine Learning Models • Linear regression • Gradient descent • Regularization techniques
Sixth week	Support Vector Machines • Linear SVM • Kernel SVM • Nonlinear classification
Seventh week	Decision Trees & Ensemble Learning • Decision trees • Bagging • Random forests • (Optional Online Code Review I: Machine Learning Workflow)
Eighth week	Midterm Exam
Ninth week	Dimensionality Reduction & Unsupervised Learning • Principal Component Analysis (PCA) • Clustering (K-Means)
Tenth week	Artificial Neural Networks • Perceptron • Multilayer Perceptron (MLP) • Backpropagation • TensorFlow/Keras basics
Eleventh week	History of Artificial Intelligence & Convolutional Neural Networks (Part I) • Evolution of AI • CNN fundamentals • Convolution and pooling
Twelfth week	Convolutional Neural Networks (Part II) • CNN architectures • Image classification • Transfer learning and object detection overview
Thirteenth week	Course Project Presentation • Team presentations • Peer evaluation • (Optional Online Code Review II: Deep Learning Workflow)
Fourteenth week	Recurrent Neural Networks • Sequence modeling • RNN and LSTM • Time-series prediction • (Optional 1-hour Online Code Review III: RNN/LSTM Implementation)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Experimental methods in Biomechanics	Course Number	0012385001
Major / School Year	Department of Biomedical& Robotics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Department of Biomedical& Robotics Engineering / 박기원	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number	A weekday / class / lecture room [27-107:목(1)(2)(3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Smart Mobility	Course Number	0012387001
Major / School Year	Department of Biomedical& Robotics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Department of Biomedical& Robotics Engineering / 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [09-224:월(8B-9), 화(5B-6)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course work will cover the basic knowledges of vehicle systems. In order to achieve the main goal (understanding and extending the knowledges about the fundament mechanism of automotive system and it relevant components) of this area of study, it will introduce the dynamic characteristics of vehicle such as longitudinal, vertical and lateral motions. Also, by giving the chance of modeling and analyzing the dynamic behaviors of the automotive system to the student, it can increase the insight of field of study for the whole system of vehicle and its components.

[2] Course Learning Outcomes

1. Understand the relationship of the each sub-system with the dynamics of automotive system
2. Know how to analyze the current dynamic behaviors related to the motions of vehicle
3. Understand and use the given system properties and data to investigate the dynamic characteristics of vehicle

[3] Class Delivery Method

Lecture using PPT files and showing the relevant examples and problems

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Course materials (Slides)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Thomas D. Gillespie	Publisher	SAE (Society of Automotive Engineers)	Textbook	Fundamentals of Vehicle Dynamics	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1. Introduction – Basic Structure of vehicle system – Basic driveline system – Current and new technologies
Second week	2. Acceleration Performance – Various engine type – Characteristics of combustions engine – Basic structure of electric vehicle
Third week	2. Acceleration Performance – Various transmissions – Mechanism of manual transmission – Mechanism of automatic transmission
Fourth week	2. Acceleration Performance – Engine and transmission – Mechanism of manual transmission – Mechanism of automatic transmission
Fifth week	2. Acceleration Performance – Mechanism of manual transmission – Mechanism of automatic transmission – Mechanism of propellar shaft
Sixth week	2. Acceleration Performance – Drivelin analysis – Fundamental of modal analysis
Seventh week	2. Acceleration Performance – Drivelin analysis – Fundamental of modal analysis
Eighth week	2. Acceleration Performance – Drivelin analysis – Fundamental of modal analysis
Ninth week	2. Acceleration Performance – Drivelin analysis – Fundamental of modal analysis
Tenth week	3. Brake System – Basic Structure of vehicle system – Brake types – Mechanism of the entire brake system
Eleventh week	3. Brake System – Basic Structure of vehicle system – Brake types – Mechanism of the entire brake system
Twelfth week	4. Suspension System – Various types of suspension – Basics of shock absorbers
Thirteenth week	5. Ride conditions of vehicle system – Fundamentals of base excitation system – Sprung and unsprung masses
Fourteenth week	5. Ride conditions of vehicle system – Fundamentals of base excitation system – Sprung and unsprung masses – Full and quarter car models
Fifteenth week	6. Electric vehicle system – Fundamentals of electromechanical system – Introduction of motors – Interdisciplinary study with electromechanical systems
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	MICROELECTRONIC CIRCUITS		Course Number	EBA6017001		
Major / School Year	Department of Biomedical& Robotics Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Department of Biomedical& Robotics Engineering	/ 조영욱	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358689	A weekday / class / lecture room	[08-539:목(7-8A)] [09-224:월(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

★★★전기회로를 수강한 학생들이면 어렵지 않습니다★★★

이 수업은 학생들이 전자회로의 기본 개념을 이해하고, 회로를 분석하고 설계할 수 있는 능력을 기르는 것을 목표로 합니다. 전기 신호의 흐름과 전자소자의 역할을 직관적으로 파악할 수 있도록 하며, 특히 다이오드와 트랜지스터를 이용한 정류 회로, 증폭 회로, 스위칭 회로의 원리를 학습합니다. BJT와 MOSFET 등 다양한 트랜지스터를 중심으로 아날로그 회로의 핵심 동작 방식을 이해하고, 각 회로의 입력-출력 특성, 이득, 임피던스 등을 분석할 수 있는 기초 역량을 배울 수도 있습니다. 아울러 실제 전자 시스템에 회로가 어떻게 적용되는지를 이해하고, 주어진 설계 조건에 따라 적절한 회로를 구성하고 검증하는 문제 해결 능력을 함께 기르도록 합니다.

[2] Course Learning Outcomes

1. 전자회로의 언어를 이해한다

저항, 커패시터, 다이오드, 트랜지스터 같은 부품이 어떤 역할을 하는지 설명할 수 있어요.
복잡해 보이는 회로도에서 신호 흐름을 읽고, 동작을 예측할 수 있습니다.

2. 신호를 다루는 법을 배운다

작고 약한 신호를 어떻게 크게 만들 수 있을까?

소리가 너무 작을 때 볼륨을 키우듯, 신호 증폭(amplification) 개념을 배웁니다.

3. 다이오드와 트랜지스터를 제대로 다룬다

단순한 스위치 역할부터 복잡한 증폭기까지, 트랜지스터가 왜 그렇게 중요한지 알게 돼요.
실제로 회로에서 어떻게 쓰이는지를 배웁니다.

4. 증폭기의 종류와 차이를 배운다

여러분은 앞으로 BJT, MOSFET과 같은 다양한 증폭기 구조를 배우고, 각각이 어떤 특성을 갖는지 비교할 수 있게 됩니다.
전압이 작아도, 회로가 제대로 작동하게 하는 방법을 배우는 것이 핵심입니다.

5. 실제 회로와 연결해 생각한다

단순히 수식만 계산하는 게 아니라, 이 회로가 어디에 쓰이는지, 어떤 문제를 해결하는지 같이 생각합니다.

예: 마이크로 앰프, 센서 전압 처리, 간단한 오디오 회로 등

6. 설계와 분석 능력을 기른다

회로를 직접 분석하고, 설계하고, 시뮬레이션하면서 전기적인 직관과 감각을 키웁니다.

[3] Class Delivery Method

★★★수업은 영어 강의를 원칙으로 합니다★★★

그러나, 수업 첫날 학생들의 피드백 및 설문을 바탕으로, 수업의 주인인 학생들의 의견을 반영하여 조정 가능합니다.

★★★ 전자회로는 전기전자공학의 꽃인 과목입니다. 우리가 사용하는 모든 전자기기의 원리를 파악 할 수 있죠.

최대한 이해하기 쉬운 수업이 될 수 있도록 노력하겠습니다 :) ★★★

중간고사는 거의 이론식의 문제, 기말고사는 문제 해결능력 식의 문제가 출제될 예정입니다

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	SEDRA/SMITH	Publisher	OXFORD	Textbook	Microelectronic Circuits	Issued year	

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	OT
Second week	전자회로를 배우기 전 기초 지식
Third week	연산증폭기
Fourth week	연산증폭기 2
Fifth week	증폭기 제작을 위한 반도체 재료
Sixth week	다이오드 1
Seventh week	Bipolar Junction Transistors (BJT)
Eighth week	중간고사 기간
Ninth week	MOS Field effect Transistors (MOSFETS)
Tenth week	Transistor Amplifiers
Eleventh week	Integrated Circuit Amplifiers
Twelfth week	Differential and Multi-stage Amplifiers
Thirteenth week	Frequency Response
Fourteenth week	Feedback Circuit
Fifteenth week	Filters and Oscillators
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			

	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Design Optimization	Course Number	0010076001
Major / School Year	Department of Biomedical& Robotics Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Department of Biomedical& Robotics Engineering / 박상인	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room	[08-539:월(2B-3)] [09-224:화(2B-3)]	
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

최적설계 기법은 제품의 설계 요구사항을 바탕으로 공학적, 수학적 지식을 기반으로 수학적 함수 최소화 문제로 정식화하여 이를 해결함으로써 최적 성능을 갖는 제품을 설계하는 기법으로 많은 공학영역에서 활용된다. 본 수업의 목적은 최적화 기법을 이해하고, 이를 공학적 설계 문제의 적용하여 해결하는 능력을 배양하는 것이다. 이를 위해, 학생들은 정식화와 수치 기법등을 배우고, 이를 실제 문제에 적용하여 해결하는 과정을 학습한다.

[2] Course Learning Outcomes

1. 최적 설계 문제의 정식화 과정을 이해하고, 적용방법을 습득한다.
2. 비제약 최적 설계 문제를 위한 수치기법을 이해하고 적용방법을 습득한다.
3. 제약 최적 설계 문제를 위한 수치기법을 이해하고 적용방법을 습득한다.
4. Excel, MATLAB등의 소프트웨어를 이용하여 실제 최적설계 문제를 해결하는 방법을 이해하고 습득한다.

[3] Class Delivery Method

강의 자료는 주로 녹화된 PPT로 진행하며 매주 실시간 화상회의를 활용하여 질의 응답 시간을 갖는다. 학기 프로젝트는 학생들의 각자 최적화 하기위한 제품을 정하고 이를 최적화하는 것으로 중간고사와 기말고사 기간중 보고서 또는 발표로 평가한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jasbir Singh Arora	Publisher	Elsevier Korea LLC	Textbook	Introduction to optimum design	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	* 최적 설계 입문 - 용어 - 수학적 배경 지식
Second week	* 최적 설계 문제의 정식화 - 설계 변수 - 목적함수 - 제약조건함수 - 표준설계 최적화 모형
Third week	* 도식해법과 기본 최적화 개념
Fourth week	* 최적설계 개념: 최적성 조건
Fifth week	* 최적설계 개념: 최적성 조건
Sixth week	* Excel과 MATLAB을 이용한 최적설계
Seventh week	* 비제약 최적설계의 수치해법 1 - 이론
Eighth week	중간고사 학기 프로젝트 제출 마감
Ninth week	* 비제약 최적설계의 수치해법 2 - 1차원 함수의 최적화 - 거리 탐색
Tenth week	* 비제약 최적설계의 수치해법 3 - 다차원 함수의 최적화 - 방향 탐색
Eleventh week	* 비제약 최적설계의 수치해법 4
Twelfth week	* 제약 최적 설계의 수치해법 1 - 비제약 최적화 기법을 이용한 제약 문제의 최적화
Thirteenth week	* 제약 최적 설계의 수치해법 1 - 선형 계획법
Fourteenth week	* 제약 최적 설계의 수치해법 1 - 선형 계획법 - 순차 선형 계획법
Fifteenth week	* 기말고사 *학기 프로젝트 제출 마감
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	SIGNAL AND SYSTEM		Course Number	IAB6025001		
Major / School Year	Dept. of Information and Telecommunication Engineering / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Information and Telecommunication Engineering / 전현채		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[07-104:수(2B-3)] [07-105:화(1-2A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

In this lecture, following key items that are crucial for electrical / information and telecommunication engineering are studied: 1) features of signals and systems, 2) continuous time and frequency domain analysis, 3) discrete time and frequency domain analysis, 4) Fourier/ Laplace and Z transform.

[2] Course Learning Outcomes

Developing the fundamentals of subjects such as information and communications, signal processing, control and systems, through learning continuous and discrete time and frequency domain analysis of a number of signals and systems

[3] Class Delivery Method

Based on presentation slides, theory oriented lectures are given. Then, practices through Matlab and relevant assignments are followed to improve the understanding.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	10 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	A. V. Oppenheim	Publisher	Pearson	Textbook	Signals and Systems (Pearson New International Edition, Second Edition)	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	S. Haykin, B.V.	Publisher	Wiley	Textbook	Signal and Systems (2nd Edition)	Issued year	2003
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to CT/DT signals and systems
Second week	LTI system and its properties
Third week	LTI system and its properties
Fourth week	Fourier Series
Fifth week	Fourier Series
Sixth week	CT/DT Fourier Transform
Seventh week	CT/DT Fourier Transform
Eighth week	Midterm Exam
Ninth week	Time and frequency characterization of signals and systems
Tenth week	Sampling
Eleventh week	Sampling
Twelfth week	Laplace transform
Thirteenth week	Laplace transform Z transform
Fourteenth week	Z transform
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	NETWORK THEORY		Course Number	IAB6007001		
Major / School Year	Dept. of Information and Telecommunication Engineering / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Information and Telecommunication Engineering / 전현채		Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[07-104:화(2B-3)] [07-105:월(1-2A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

In this lecture, characteristics of electrical components and circuit analysis methods including various transformation techniques are studied.

Through this, students learn and build the capability of analyzing and designing electrical circuits and networks that are fundamental of electrical, information and telecommunication engineering.

This lecture is suitable and recommended for those who already took a class of circuit theory in the previous semester.

[2] Course Learning Outcomes

Understanding and analyzing frequency response and transfer function in circuits and networks.

Learning various transformation methods through which efficient circuit analysis is possible.

[3] Class Delivery Method

After understanding overall concept and main ideas of each chapter through main articles in the text book, students learn details and develop problem solving ability by relevant examples. Then, more chances are given to learn many other applications via assignments.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J. David Irwin	Publisher	Wiley	Textbook	Engineering Circuit Analysis, 11th Edition	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	AC Steady-State Analysis (1)
Third week	AC Steady-State Analysis (2)
Fourth week	Steady-State Power Analysis (1)
Fifth week	Steady-State Power Analysis (2)
Sixth week	Magnetically Coupled Networks
Seventh week	Variable Frequency Network Performance(1)
Eighth week	Mid-term Exam
Ninth week	Variable Frequency Network Performance(2)
Tenth week	The Laplace Transform (1)
Eleventh week	The Laplace Transform (2)
Twelfth week	Application of the Laplace Transform to Circuit Analysis (1)
Thirteenth week	Application of the Laplace Transform to Circuit Analysis (2)
Fourteenth week	Fourier Analysis Techniques
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	DIGITAL COMMUNICATIONS	Course Number	IAB6046001
Major / School Year	Dept. of Information and Telecommunication Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 전현채	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[07-211:월(2B-3),수(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Studying following topics

- Principles of modern communications
- Baseband digital communication methods
- Passband digital communication methods
- Orthogonal frequency division multiplexing and its applications

[2] Course Learning Outcomes

Understanding of fundamental digital communication theories

[3] Class Delivery Method

Lecture slides

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	10 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	10 %	0 %	10 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	TBD	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Understanding of digital communications
Second week	Understanding of digital communications
Third week	Signals and systems
Fourth week	Signals and systems, Probability theory
Fifth week	Probability theory, source coding
Sixth week	Baseband digital communications
Seventh week	Baseband digital communications
Eighth week	Mid-term exam
Ninth week	Band-limited channel
Tenth week	Band-limited channel
Eleventh week	Passband digital communications
Twelfth week	Passband digital communications
Thirteenth week	OFDM
Fourteenth week	OFDM
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	DIGITAL COMMUNICATIONS		Course Number	IAB6046002		
Major / School Year	Dept. of Information and Telecommunication Engineering / 3		completion division /Grade evaluation	/		
Department/Professor	Dept. of Information and Telecommunication Engineering / 이병주		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	0328358282	A weekday / class / lecture room	[07-107:월(1-2A)] [07-111:수(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This lecture aims to understand the overall structure and characteristics of the digital communication system and focuses on the following basic concepts.

- Understand the basic structure of the communication system and how it communicates over the baseband and bandpass
- Identify the characteristics of the communication channel
- Understand considerations for designing an efficient communication system
- Introduction to modulation technologies and recent issues for mobile communications

[2] Course Learning Outcomes

Understanding of fundamental digital communication systems

[3] Class Delivery Method

Lecture slides

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	0 %	10 %	10 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	10 %	0 %	10 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	김명진	Publisher	생능출판사	Textbook	MATLAB 실습과 함께 배우는 아날로그 및 디지털 통신이론	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Andrea Goldsmith	Publisher	Cambridge University Press	Textbook	Wireless Communications	Issued year	2005
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and evolution of wireless communication systems
Second week	Channel Capacity
Third week	Wireless Channel Modeling (1)
Fourth week	Wireless Channel Modeling (2)
Fifth week	Digital Modulation (1)
Sixth week	Digital Modulation (2)
Seventh week	Digital Modulation (3)
Eighth week	Midterm Exam
Ninth week	Channel Fading (1)
Tenth week	Channel Fading (2)
Eleventh week	OFDM (1)
Twelfth week	OFDM (2)
Thirteenth week	Next-Generation Wireless Communication Systems (1)
Fourteenth week	Next-Generation Wireless Communication Systems (2)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	MICROWAVE ENGINEERING	Course Number	IAB6024001
Major / School Year	Dept. of Information and Telecommunication Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 강승택	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[07-104:월(7-8A), 화(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This class is described as the right place where the design methods of components, circuits, modules and systems for signals of frequency essential to electric power delivery and wireless communication are taught and understood with theories from Engineering Mathematics, Linear Algebra, Electric Circuits, Telecommunication, Signals and Systems and Electromagnetics. Furthermore, this class plays the role in bridging the space between Electromagnetics and Antenna Engineering.

[2] Course Learning Outcomes

This class aims at defining the transmitter and receiver electrically, understanding the generation and delivery of microwave signals, mathematical expressions of physical phenomena and derivation of design methods and acquisition of design methods of components and circuits in the system from sending, transferring, and receiving wireless signals.

[3] Class Delivery Method

Lectures 80%, Introduction to design examples 10% and Q&A 10%

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	0 %	0 %	50 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	David M. Pozar	Publisher	Wiley	Textbook	Microwave Engineering	Issued year	2011
(2)	Author	Robert E. Collin	Publisher	IEEE Press	Textbook	Foundations for Microwave Engineering	Issued year	1992
(3)	Author	Reinhold Ludwig	Publisher	Prentice Hall	Textbook	RF Circuit Design	Issued year	2000

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Electric Field and Voltage, Coulomb's law, Divergence Theorem, Scalar Potential
Second week	Magnetic Field and Electric Current, Ampere's law, Biot-Savart's law, Stokes' Theorem, Vector Potential
Third week	Resistors, Capacitors and Inductors as Components for Electric Power and Computers
Fourth week	Frequency related to RLC components in Electric Circuits, Frequency related to the Time-Constant(Exponential Function as the solution to a Differential Equation) and Transfer function(drawn by the Bode Plotting)
Fifth week	Geometries, Dielectric Constants, Electric Field resulting in resistors and capacitors, and Geometries, Magnetic Material Constants, Magnetic Field resulting in inductors
Sixth week	All the media that convey microwave signals from the transmitter through the intermediate region to the receiver are modelled as the transmission-line which sets the world of Electric Field and Magnetic Field up with Voltage and Current.
Seventh week	Differential Equations of the Voltage Wave and Current Wave, Characteristic Impedance related to the Geometry and Material Constants of the cross-section of the transmission-line, Wave Impedance, Reflection and Transmission of the Voltage Wave due to the Load of the Input Port or that of the Output Port which is analogous to the Boundary Conditions
Eighth week	The Mid-Terms
Ninth week	Circuit Network Modelling of Microwave Components and Circuits with Impedance-, Admittance-, Scattering-, and ABCD-parameters.
Tenth week	Concept of Impedance and its matching in microwave circuit networks, Impedance at an arbitrary position and reflection due to the impedance mismatch, Understanding the Smith Chart as a complex plane of Impedance and reflection coefficient and its drawing
Eleventh week	Applying the Smith Chart to building the impedance matching circuits for a variety of microwave circuits
Twelfth week	Microwave Filters for selecting the frequency band you want to tune(I)
Thirteenth week	Microwave Filters for selecting the frequency band you want to tune(II)
Fourteenth week	Power Coupler to sense how the transmitted or received wave is propagating in the RF system and Power Divider to feed the Array Antenna
Fifteenth week	Active Microwave Components: Power Amplifiers, Frequency Mixers, Active Phase Shifters
Sixteenth week	The Finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Communication Engineering Lab	Course Number	0010093001
Major / School Year	Dept. of Information and Telecommunication Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 강승택	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class / lecture room	[07-107:수(1)(2)(3)(4)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Information science goes along with Communication. To realize communication between two nodes on a wired network or those on a wireless network, hardware and software are adopted to build a system which comprises analogue components and digital components based on electromagnetics, electric circuits, electronic circuits, antennas, signal processing and control devices. Students learn the basics and applications of communication.

[2] Course Learning Outcomes

Information science goes along with Communication. To realize communication between two nodes on a wired network or those on a wireless network, hardware and software are adopted to build a system which comprises analogue components and digital components based on electromagnetics, electric circuits, electronic circuits, antennas, signal processing and control devices. Students learn the basics and applications of communication.

[3] Class Delivery Method

Information science goes along with Communication. To realize communication between two nodes on a wired network or those on a wireless network, hardware and software are adopted to build a system which comprises analogue components and digital components based on electromagnetics, electric circuits, electronic circuits, antennas, signal processing and control devices. Students learn the basics and applications of communication.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
45 %	10 %	0 %	45 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	45 %	0 %	10 %	0 %	0 %	45 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	NI	Publisher		Textbook	USRP Communication Labs	Issued year	
(2)	Author	Altair	Publisher		Textbook	FEKO	Issued year	
(3)	Author	Altair	Publisher		Textbook	Winprop	Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Information science and Communication.
Second week	Signals and systems of communication
Third week	Elements of communication systems
Fourth week	Electromagnetic features of communication
Fifth week	Circuit features of communication
Sixth week	Network features of communication
Seventh week	Electronic features of communication
Eighth week	Mid-terms
Ninth week	Communication Theories including Fourier Transformation and Analogue modulation
Tenth week	Communication Theories including Digital modulation
Eleventh week	How to assess the quality of wireless communication
Twelfth week	Designs for wireless communication
Thirteenth week	Testing wireless communication(Lab.1)
Fourteenth week	Testing wireless communication(Lab.2)
Fifteenth week	The Finals
Sixteenth week	기말고사 Finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ANTENNA ENGINEERING		Course Number	IAB6081001		
Major / School Year	Dept. of Information and Telecommunication Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	Dept. of Information and Telecommunication Engineering / 강승택		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[07-406:화(2B-3),목(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Students learn the concept, kinds, features and physics of antennas as an essential component of any wireless equipment and telecommunication systems along with how to measure their characteristics.

[2] Course Learning Outcomes

Students will secure the ability of understanding the concept, kinds, features and physics of antennas as an essential component of any wireless equipment and telecommunication systems along with how to measure their characteristics.

[3] Class Delivery Method

The class discusses the concept, kinds, features and physics of antennas as an essential component of any wireless equipment and telecommunication systems along with how to measure their characteristics.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Warren L. Stutzmann Garry A. Thiele	Publisher	John Wiley and Sons	Textbook	Antenna Theory and Design	Issued year	
(2)	Author	C. A. Balanis	Publisher	John Wiley & Sons	Textbook	Antenna Designs	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	C. Balanis	Publisher	John Wiley and Sons	Textbook	Antenna Engineering	Issued year	1996
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Antenna Fundamentals and Definitions
Second week	Some Simple Radiating Systems and Antenna Practice
Third week	Arrays
Fourth week	Line Sources
Fifth week	Resonant Antennas: Wires and Patches(including RFID antennas)
Sixth week	Broadband Antennas(Including UWB communication– and multiband antennas)
Seventh week	Aperture Antennas. Antenna Synthesis
Eighth week	Mid–terms
Ninth week	Microstrip Antennas : single patch, parasitic patches, aperture coupled, intennas, multi–mode antennas
Tenth week	Slot or CPW Antennas : single slot, multi–slots, integrateble antennas, multi–mode antennas
Eleventh week	Waveguide antennas and reflector antennas
Twelfth week	Antennas in Systems and Antenna Measurements
Thirteenth week	CEM(Computational ElectroMagnetics) for Antennas: The Method of Moments(including Finite Integration Technique, Modal Analysis, FEM, BEM, FDM)
Fourteenth week	CEM(Computational ElectroMagnetics) for Antennas: Finite Difference Time Domain Method(including FVTD, Lorentz–Debye–Drude Models)
Fifteenth week	CEM(Computational ElectroMagnetics) for Antennas: High–Frequency Methods(PO(Physical Optics), GO(Geometrical Optics), GTD(Geometrical Theory of Diffraction), UTD(Uniform Theory of Diffraction)
Sixteenth week	Finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INFORMATION THEORY		Course Number	EL06039001		
Major / School Year	Dept. of Information and Telecommunication Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	Dept. of Information and Telecommunication Engineering / 이병주		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	0328358282	A weekday / class / lecture room	[07-211:월(7-8A)] [07-406:목(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course offers an introduction to the information theory and its applications to reliable and efficient information systems.

1. Understand concepts such as entropy, divergence, mutual information;
2. Understand lossless data compression and lossy data compression;
3. Understand channel capacity and reliable data transmission;
4. Understand connections between information theory and machine learning.

[2] Course Learning Outcomes

Understanding fundamental of information theory

[3] Class Delivery Method

Lecture slides

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: 20%

Assignment: 20%

Midterm exam: 25%

Final exam: 35%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	T. Cover & J. Thomas	Publisher	Wiley	Textbook	Elements of Information Theory (2nd ed.)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and entropy
Second week	Divergence and mutual information
Third week	Fano's inequality and AEP
Fourth week	Entropies of stochastic process and data compression
Fifth week	Huffman codes
Sixth week	Lossless compression
Seventh week	Channel capacity
Eighth week	Midterm Exam
Ninth week	Channel coding theorem
Tenth week	Joint source channel coding
Eleventh week	Differential entropy and entropy maximization
Twelfth week	Additive Gaussian noise channel
Thirteenth week	Rate distortion theory
Fourteenth week	Applications (machine learning, etc.)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	RISE		Course Number	0009062056		
Major / School Year	Division of Business Administration	/ 전 학년	completion division / Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김태훈	Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	0328358714	A weekday / class / lecture room				
Office hours	By appointment		Medium of Instruction	EN		

[1] Outline / Purpose

This startup course, "Startup Venture Lab," is an advanced, venture-building course designed for students who have already developed and validated startup ideas and are ready to transform them into real businesses. Unlike traditional entrepreneurship courses that focus primarily on business plans or startup concepts, this course emphasizes execution. Students work as founding teams to build actual startup ventures by developing minimum viable products (MVPs), acquiring early customers, validating business models, refining product-market fit, and preparing for investment or commercialization.

Throughout the semester, each team is expected to operate as a real startup. Students continuously interact with customers, industry mentors, startup accelerators, venture capital investors, accountants, legal professionals, and experienced entrepreneurs. By the end of the course, teams are expected to possess not merely a startup idea, but a launch-ready venture with validated customers, an executable business model, and a commercialization roadmap. The course ultimately aims to cultivate entrepreneurs who are capable of creating sustainable businesses that generate economic and social value.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

transform validated startup ideas into executable business ventures;
 build and iterate a Minimum Viable Product (MVP) through rapid experimentation;
 acquire and validate early customers using evidence-based entrepreneurial methods;
 develop scalable business operations and growth strategies;
 apply AI and digital technologies to accelerate venture development and competitive advantage;
 prepare investment-ready startup materials including financial projections, commercialization plans, and investor presentations;
 collaborate effectively as founding team members while demonstrating entrepreneurial leadership;
 communicate with investors, accelerators, mentors, and strategic partners professionally;
 develop a realistic roadmap toward company registration, startup competitions, accelerator programs, and venture investment.

[3] Class Delivery Method

This course follows a venture studio model, where students build real startups rather than complete classroom assignments.

The course combines startup studio, project-based learning, lean startup, customer development, AI-assisted product development, and weekly mentor clinics. As a startup team, students receive continuous feedback from startup founders, startup accelerators, venture capital investors, certified public accountants, intellectual property attorneys, industry experts, and faculty advisors. Students are expected to meet customers outside the classroom every week and continuously improve their products based on market feedback.

Mentor program: During the semester, each team will receive personalized mentoring from external professionals. Possible mentors include startup founders, accelerator directors, venture capital investors, angel investors, CPAs, patent attorneys, product managers, and AI engineers. Mentor sessions focus on product validation, customer acquisition, startup finance, legal issues, Investment readiness, commercialization strategy, etc.

Mentor program: During the semester, each team will receive personalized mentoring from external professionals. Possible mentors include startup founders, accelerator directors, venture capital investors, angel investors, CPAs, patent attorneys, product managers, and AI engineers. Mentor sessions focus on product validation, customer acquisition, startup finance, legal issues, Investment readiness, commercialization strategy, etc.

Individual assignment (founder reflection journal): Students document weekly entrepreneurial learning, customer insights, failures, pivots, and future action plans.

Team project (startup commercialization project): As a team, students develop an actual startup venture. Expected outcomes include MVP, business registration roadmap, customer validation, revenue model, financial projection, pitch deck, investor presentation, and commercialization roadmap.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Participation and startup progress 20%, mentor evaluation 20%, MVP development 20%, commercialization report 20%, demo day presentation 20%

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Online resource	Publisher	Stanford Graduate School of Business	Textbook	Startup Garage	Issued year	2026
(2)	Author	Online resource	Publisher	MIT Sloan	Textbook	New Enterprises	Issued year	2026
(3)	Author	Online resource	Publisher	MIT Sloan	Textbook	Nuts and Bolts of New Ventures	Issued year	2026

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

YouTube channels: Stanford eCorner, Y Combinator, MIT OpenCourseWare, Harvard Innovation Labs, Berkeley Haas Entrepreneurship, Sequoia Capital, Andreessen Horowitz (a16z), Google for Startups, OpenAI Academy, NVIDIA AI, Microsoft for Startups

[6] Weekly lesson plans

First week	Building a startup company – Course orientation – Team formation – Startup readiness assessment
Second week	Customer discovery sprint – Customer interviews – Problem validation – Refining value proposition
Third week	Minimum viable product (MVP) – MVP planning – AI-assisted product development – Product roadmap
Fourth week	Product validation – Early adopters – User testing – Product iteration
Fifth week	Go-to-market strategy – Customer acquisition – Pricing – Marketing channels
Sixth week	Business operations – Startup legal structure – Accounting – Financial planning – KPI design
Seventh week	Mentor review I – Each team presents current progress – Mentors provide detailed consulting
Eighth week	Startup accelerator program – How accelerators work – Government startup programs – Investment readiness
Ninth week	Fundraising strategy – Angel investment – VC investment – Government funding – IR preparation
Tenth week	Growth hacking – Product-market fit – Customer retention – Scaling strategy
Eleventh week	Startup leadership – Founder roles – Startup culture – Building high-performing teams
Twelfth week	Commercialization strategy – Sales – Partnership – Licensing

	– Technology transfer
Thirteenth week	Mentor review II – Investor–style feedback – Commercialization assessment
Fourteenth week	Demo day – Investor pitch – Product demonstration – Startup exhibition
Fifteenth week	Beyond graduation – Company registration – Startup competitions – Accelerator application – Global expansion – Career pathways
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	BUSINESS STATISTICS		Course Number	JA06015001		
Major / School Year	Division of Business Administration	/ 1	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김태호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358733	A weekday / class / lecture room	[14-507:월(5B-6),목(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

For students to study fundamental theories of statistics and to apply them to real management data.

[2] Course Learning Outcomes

1. To learn statistical theory
2. To get used to a famous statistics package, SPSS which is broadly used by business
3. To use statistics and computer in order to analyze the economics data

[3] Class Delivery Method

For two hours, an intensive lecture on a statistical theory and for an hour, a SPSS exercise for theory covered are performed. All classes are instructed in English. Lecture material for each week will be posted in lecture homepage <http://www.niceprof.net> one day before class time in both formats of ppt and e-book.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	30 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	60 %	0 %	0 %	0 %	0 %	30 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Douglas Lind, William Marchal, Samuel Wathen	Publisher	McGraw-Hill Education	Textbook	Basic Statistics for Business and Economics: 2024 Release ISE	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to statistics
Second week	Data Collection
Third week	Graphical Description
Fourth week	Descriptive statistics
Fifth week	Probability and discrete distributions
Sixth week	Continuous Distributions
Seventh week	Estimation
Eighth week	Mid term exam / Sampling Distribution
Ninth week	Inference for single population
Tenth week	Inference for two population
Eleventh week	ANOVA I
Twelfth week	ANOVA II
Thirteenth week	Correlation
Fourteenth week	Regression
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Application of statistical theory and SPSS in order to analyze economic data	submission date	
	purpose	To encourage students to have an experience on statistical data analysis		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Economies	Course Number	JA06047001
Major / School Year	Division of Business Administration / 1	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358508	A weekday / class / lecture room	[14-201:화(4-5A)] [14-203:월(4-5A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

The economic theory is a powerful tool to analyze the real world. During this semester, students will learn the basic theory and concepts of principles of economics. At the end of the semester, students should be able to define the primary concepts, models, and economic analysis. In addition, formulate problems and solutions in economic language.

[2] Course Learning Outcomes

This course will be based on the fundamental theories and concepts of Economics.
- Main analytical tools used in economics

[3] Class Delivery Method

The main part of this course will be based on my lecture. However, to comprehend and understand my lecture, students will need to read all the assigned chapters accordingly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	N. Gregory Mankiw	Publisher	Cengage Learning	Textbook	Principles of Economics 9th edition	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Mankiw, 김경환, 김종석	Publisher	Cengage Learning	Textbook	맨큐의 경제학 9th edition	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and Overview
Second week	Chapter 1: Ten Principles of Economics
Third week	Chapter 2: Thinking Like an Economist
Fourth week	Chapter 3: Interdependence and Gains from Trade
Fifth week	Chapter 4: The Market Forces of Supply and Demand
Sixth week	Chapter 5: Elasticity and its Application (I)
Seventh week	Chapter 5: Elasticity and its Application (II)
Eighth week	Midterm Exam
Ninth week	Chapter 6: Supply, Demand, and Government Policies (I)
Tenth week	Chapter 6: Supply, Demand, and Government Policies (II)
Eleventh week	Chapter 7: Consumers, Producers, and Efficiency of Markets
Twelfth week	Chapter 8: The Costs of Taxation
Thirteenth week	Final Presentation
Fourteenth week	Final Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Economies		Course Number	JA06047005		
Major / School Year	Division of Business Administration	/ 1	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김경미	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358509	A weekday / class / lecture room	[14-203:화(7-8A),목(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is an instruction to the basic concepts of Economics, so this course will begin by exploring the fundamental economic question. We live in a world with scarce resources, including oil, money, time, energy and goods and services. However, we have unlimited wants. Therefore, we consider how these scarce resources are allocated and in doing so, we will explore the importance of choice. The course will then develop many fundamental concepts, ideas and models that economists use to study all the questions that result from this fundamental economic problem.

[2] Course Learning Outcomes

By the end of this class, students should be able to:

1. Improve economic literacy.
2. Improve critical thinking and problem solving skills by using economic models to explain and predict economic relationships.
3. Improve students abilities to evaluate views and opinions related to economics and develop their own perspectives based on sound reasoning.
4. Improve students understanding of economic issues and events.

[3] Class Delivery Method

Please click Korean Version. Korean Version is written in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	5 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gregory Mankiw	Publisher	Cengage	Textbook	Principles of Economics by Gregory Mankiw: 8th Edition softcopy	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Ten Principles of Economics (Chapter 1-1)
Third week	Ten Principles of Economics (Chapter 1-2)
Fourth week	Supply and demand (4-1)
Fifth week	Supply and demand (4-2)
Sixth week	Elasticity (Chapter 5) and its application Class work
Seventh week	Government policy (chapter 6)
Eighth week	Mid Term (Tuesday: Oct 20, 7-8 p.m. The place: TBA)
Ninth week	Consumers, producers, and the efficiency of markets (chapter 7)
Tenth week	International Trade (chapter 3)
Eleventh week	International trade (Chapter 9)
Twelfth week	Externality (Chapter 10)
Thirteenth week	presentation
Fourteenth week	presentation
Fifteenth week	Final exam ((Tuesday: Dec 8, 7-8 p.m. The place: TBA)
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Economies	Course Number	JA06047004
Major / School Year	Division of Business Administration / 1	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class / lecture room	[14-203:화(5B-6),목(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course is an instruction to the basic concepts of Economics, so this course will begin by exploring the fundamental economic question. We live in a world with scarce resources, including oil, money, time, energy and goods and services. However, we have unlimited wants. Therefore, we consider how these scarce resources are allocated and in doing so, we will explore the importance of choice. The course will then develop many fundamental concepts, ideas and models that economists use to study all the questions that result from this fundamental economic problem.

[2] Course Learning Outcomes

By the end of this class, students should be able to:

1. Improve economic literacy.
2. Improve critical thinking and problem solving skills by using economic models to explain and predict economic relationships.
3. Improve students abilities to evaluate views and opinions related to economics and develop their own perspectives based on sound reasoning.
4. Improve students understanding of economic issues and events.

[3] Class Delivery Method

Please click Korean Version. Korean Version is written in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	5 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gregory Mankiw	Publisher	Cengage	Textbook	Principles of Economics by Gregory Mankiw: 8th Edition softcopy	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Ten Principles of Economics (Chapter 1-1)
Third week	Ten Principles of Economics (Chapter 1-2)
Fourth week	Supply and demand (4-1)
Fifth week	Supply and demand (4-2)
Sixth week	Elasticity (Chapter 5) and its application Class work
Seventh week	Government policy (chapter 6)
Eighth week	Mid Term (Tuesday: Oct 20, 7-8 p.m. The place: TBA)
Ninth week	Consumers, producers, and the efficiency of markets (chapter 7)
Tenth week	International Trade (chapter 3)
Eleventh week	International trade (Chapter 9)
Twelfth week	Externality (Chapter 10)
Thirteenth week	presentation
Fourteenth week	presentation
Fifteenth week	Final exam ((Tuesday: Dec 8, 7-8 p.m. The place: TBA)
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Economies		Course Number	JA06047003		
Major / School Year	Division of Business Administration	/ 1	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김경미	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358509	A weekday / class / lecture room	[14-203:화(4-5A),목(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is an instruction to the basic concepts of Economics, so this course will begin by exploring the fundamental economic question. We live in a world with scarce resources, including oil, money, time, energy and goods and services. However, we have unlimited wants. Therefore, we consider how these scarce resources are allocated and in doing so, we will explore the importance of choice. The course will then develop many fundamental concepts, ideas and models that economists use to study all the questions that result from this fundamental economic problem.

[2] Course Learning Outcomes

By the end of this class, students should be able to:

1. Improve economic literacy.
2. Improve critical thinking and problem solving skills by using economic models to explain and predict economic relationships.
3. Improve students abilities to evaluate views and opinions related to economics and develop their own perspectives based on sound reasoning.
4. Improve students understanding of economic issues and events.

[3] Class Delivery Method

Please click Korean Version. Korean Version is written in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	5 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gregory Mankiw	Publisher	Cengage	Textbook	Principles of Economics by Gregory Mankiw: 8th Edition softcopy	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Ten Principles of Economics (Chapter 1-1)
Third week	Ten Principles of Economics (Chapter 1-2)
Fourth week	Supply and demand (4-1)
Fifth week	Supply and demand (4-2)
Sixth week	Elasticity (Chapter 5) and its application Class work
Seventh week	Government policy (chapter 6)
Eighth week	Mid Term (Tuesday: Oct 20, 7-8 p.m. The place: TBA)
Ninth week	Consumers, producers, and the efficiency of markets (chapter 7)
Tenth week	International Trade (chapter 3)
Eleventh week	International trade (Chapter 9)
Twelfth week	Externality (Chapter 10)
Thirteenth week	presentation
Fourteenth week	presentation
Fifteenth week	Final exam ((Tuesday: Dec 8, 7-8 p.m. The place: TBA)
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Economies		Course Number	JA06047002		
Major / School Year	Division of Business Administration	/ 1	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 박현준	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358508	A weekday / class / lecture room	[14-201:화(5B-6)] [14-203:월(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

The economic theory is a powerful tool to analyze the real world. During this semester, students will learn the basic theory and concepts of principles of economics. At the end of the semester, students should be able to define the primary concepts, models, and economic analysis. In addition, formulate problems and solutions in economic language.

[2] Course Learning Outcomes

This course will be based on the fundamental theories and concepts of Economics.
- Main analytical tools used in economics

[3] Class Delivery Method

The main part of this course will be based on my lecture. However, to comprehend and understand my lecture, students will need to read all the assigned chapters accordingly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	N. Gregory Mankiw	Publisher	Cengage Learning	Textbook	Principles of Economics 9th edition	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Mankiw, 김경환, 김종석	Publisher	Cengage Learning	Textbook	맨큐의 경제학 9th edition	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and Overview
Second week	Chapter 1: Ten Principles of Economics
Third week	Chapter 2: Thinking Like an Economist
Fourth week	Chapter 3: Interdependence and Gains from Trade
Fifth week	Chapter 4: The Market Forces of Supply and Demand
Sixth week	Chapter 5: Elasticity and its Application (I)
Seventh week	Chapter 5: Elasticity and its Application (II)
Eighth week	Midterm Exam
Ninth week	Chapter 6: Supply, Demand, and Government Policies (I)
Tenth week	Chapter 6: Supply, Demand, and Government Policies (II)
Eleventh week	Chapter 7: Consumers, Producers, and Efficiency of Markets
Twelfth week	Chapter 8: The Costs of Taxation
Thirteenth week	Final Presentation
Fourteenth week	Final Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERNATIONAL MANAGEMENT		Course Number	JA06005001		
Major / School Year	Division of Business Administration	/ 2	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 박현준	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358508	A weekday / class / lecture room	[14-201:화(7-8A)] [14-203:월(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This is an introductory course in international business. The essential content of the course includes:

1. an overview of the means of conducting international business, with an emphasis on what makes international different from domestic;
2. the effects of the social systems within countries on the conduct of international business;
3. the major theories explaining international business transactions and the institutions influencing those activities;
4. the financial exchange systems and institutions that measure and facilitate international transactions;
5. the dynamic interface between countries and companies attempting to conduct foreign business activities;
6. corporate strategy alternatives for global operations; and
7. international activities that fall largely within functional disciplines.

[2] Course Learning Outcomes

1. Understand the different challenges businesses face when they operate in an international environment.
2. Examine the various cultural, political, and legal issues that impact international business activity.
3. Examine the international institutions and practices that impact international business.
4. Understand trade and investment theory, foreign exchange, and the determination of foreign exchange rates.
5. Appreciate the interaction of business and government as they relate to international commerce.
6. Develop insight into the management implications of international business strategy and operations.

[3] Class Delivery Method

Each week a new chapter will be lectured. For each week, I advise that students to read the assigned chapter before entering into the classroom for better understanding of the materials.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	30 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	10 %	0 %	0 %	10 %

[4] Grading Policies

Attendance and Participation: 20%

Case Questions: 20%

Midterm: 30%

Final: 30%

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Charles W. L. Hill, G. Tomas M. Hult	Publisher	McGraw-Hill	Textbook	International Business: Competing in the Global Marketplace	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	최순규, 신형덕	Publisher	HS Media Publishing & Agency	Textbook	International Business	Issued year	20110822
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and course overview (Zoom Class for this week only)
Second week	Chapter 1: Globalization (I)
Third week	Chapter 1: Globalization (II)
Fourth week	Chapter 2: National Differences in Political Economy (I)
Fifth week	Chapter 2: National Differences in Political Economy (II)
Sixth week	Chapter 3: Differences in Culture (I)
Seventh week	Chapter 3: Differences in Culture (I)
Eighth week	Midterm Exam
Ninth week	Chapter 4: Ethics in International Theory (I)
Tenth week	Chapter 4: Ethics in International Theory (II)
Eleventh week	Chapter 5: International Trade Theory
Twelfth week	Chapter 7: Foreign Direct Investment
Thirteenth week	Chapter 12: The Strategy of International Business (I)
Fourteenth week	Chapter 12: The Strategy of International Business (II)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERNATIONAL MANAGEMENT		Course Number	JA06005004		
Major / School Year	Division of Business Administration	/ 2	completion division / Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김영은	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-103:목(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course begins from a single question: what is particular about strategy in enterprises whose activities span more than one country? It examines how strategic logic that works domestically changes the moment it crosses a border, and what analytical tools are needed to handle the difference. The course faces outward. Markets, countries, industries, rivals, and governments — the decisions that arise at the firm's boundary with the outside world — are its territory. In sequence: where to go (location), what to take (resources and capabilities), how to enter (entry mode), how to compete once there (competitive dynamics), and how to deal with governments and society (nonmarket strategy and ESG). The core text is Mike W. Peng, Global Business (Cengage). The book's two organizing lenses — the institution-based view and the resource-based view — serve as the analytical language of the semester. Concept lectures are combined with case discussion, working through real decisions at Icebreaker, Global Wine War, Jollibee, United Cereal, Stella Artois, IKEA, and Vedanta.

[2] Course Learning Outcomes

- Explain how strategic decision-making differs structurally once it crosses a national border.
- Understand corporate scope (business, vertical, and geographic) and apply the better-off test and the best alternative test to a specific firm's foreign expansion decision.
- Use the ADDING Value Scorecard to test, along six distinct routes, whether going abroad actually creates value.
- Judge whether acquisition, alliance, or wholly owned entry is appropriate, and justify the choice using transaction cost economics and the OLI paradigm.
- Decompose the distance between candidate markets using the CAGE framework, and design a sequence and mode of entry.
- Diagnose the globalization pressures acting on an industry and position industries and firms on the integration-responsiveness grid.
- Compare liability of foreignness, the Uppsala process model, born-global firms, and emerging-market MNE springboard strategies as accounts of the internationalization path.
- Use the institution-based view to analyse how formal institutions (political, legal, and economic systems) and informal institutions (culture, ethics, and norms) constrain strategic choice.
- Judge global brand standardization versus adaptation decisions from the perspective of industry structure.
- Build a nonmarket strategy that accounts for political risk, host-government bargaining, geopolitical fragmentation, and export controls.
- Analyse ESG and sustainability as components of international strategy rather than as cost, and design responses to stakeholder pressure.
- Participate in case discussion from a defensible position and analyse one MNE as a team, presenting the results persuasively.

[3] Class Delivery Method

The course meets twice weekly (approximately 75 minutes each), combining online delivery (recorded video and live video sessions) with in-person sessions. The standard pattern is:

- (1) Pre-recorded lecture (asynchronous online): the basic exposition of each concept and framework is delivered by recorded video. Students must work through the assigned chapter and the video before the session.
- (2) In-person or live online session: time is spent applying the pre-studied framework to real situations. The session is for application, discussion, and questions — not for repeating the lecture.
- (3) Case method: each case is distributed with three or four preparation questions at least one week in advance. Students must arrive having read the case and formed a position; cold-calling is used. Case materials are copyright-protected and may not be electronically copied or redistributed.
- (4) Team project: teams of four to five select one MNE and analyse its expansion history, location choices, entry modes, and local competition, presenting in Week 15.
- (5) Attendance and Participation
- (6) Sections 003 and 004 run on an identical syllabus and identical assessment criteria.

Ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	10 %	10 %	0 %	0 %	0 %

Ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

- Examinations 40% = final 20% + midterm 20%. The final is an essay paper in which students answer two of four questions, assessing the ability to apply a framework to a specific firm situation.
- Attendance and participation 20%
- Assignments 40% = team project report and presentation 30% + individual case notes 10%.
- Failure to view the assigned recorded lectures is treated as equivalent to absence.

· Plagiarism and undeclared use of generative AI are handled under university regulations. Any AI use must be declared with its scope.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Peng, M. W.	Publisher	Cengage Learning	Textbook	Global Business (6th ed.)	Issued year	2026
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

기타서적 및 사례·논문: 사례 — Icebreaker (A) (Ivey), Global Wine War 2009 (HBS), Jollibee Foods Corporation (HBS), United Cereal (HBS), The Global Branding of Stella Artois (Ivey), The Khus Project, IKEA in Saudi Arabia (A)(B)(C), Vedanta Resources. 논문 — Zaheer (1995) AMJ; Johanson & Vahlne (1977; 2009) JIBS; Luo & Tung (2007) JIBS; Sethi & Guisinger (2002) JIB; Beamish & Lupton (2016) Journal of World Business; Ghemawat (2001) HBR, Distance still matters. 사례는 대학이 확보한 HBSP-Ivey 라이선스를 통해 배포하며, 전자적 복제 및 재배포를 금한다. 논문은 사용 전 주에 LMS를 통해 배포한다.

[6] Weekly lesson plans

First week	Introduction to Global Business the opening question — what is particular about strategy in enterprises whose activities span more than one country? Topics of globalization and deglobalization. Drivers of internationalizations. The VUCA environment and the local consequences of global connectivity. Global company identification exercise
Second week	Corporate scope, the geographic dimension, and the ADDING Value Scorecard A: business versus corporate strategy; the two central questions of corporate strategy; the better-off test and the best alternative test. Vertical, horizontal, and geographic scope. Transaction cost economics. B: the ADDING Value Scorecard — Adding volume, Decreasing costs, Differentiating, Improving industry attractiveness, Neutralizing risk, Generating knowledge. The intuition that "going abroad is good" is decomposed into six testable routes.
Third week	The ownership test and the foreign entry decision: what, where, how A: acquire or ally? Types of synergy (modular, sequential, reciprocal), soft resources, redundant resources, market uncertainty, and competitive pressure. The fundamental paradox of information. B: location advantages (market-, resource-, efficiency-, and strategic-asset-seeking); the CAGE distance framework (cultural, administrative, geographic, economic); sequence of entry; and the entry-mode ladder read on commitment and control.
Fourth week	Case: Icebreaker (A) — run across both sessions A: why internationalize at all? Is Icebreaker actually better off as a global firm than as a New Zealand one? What were the sources of past success, and which stages of the supply chain must be controlled directly? B: sequence of entry — New Zealand to the US, Europe, Korea, and China. Transferability of the success formula. The ownership test from Week 3 applied for real. Setting launch criteria. Postscript: the 2018 VF acquisition and the 2023 China entry.
Fifth week	Industry globalization forces and the integration-responsiveness framework A: plotting industries against pressures for integration and for local responsiveness — consumer electronics, telecom routers, automobiles, cement, packaged foods. Toyota, Honda, and Fiat compared. B: Case: Global Wine War 2009 — New World versus Old World. Students then plot semiconductors, canned foods, and pharmaceuticals on the I-R grid and defend their placements.
Sixth week	Liability of foreignness, distance, and the local champion A: the sources of liability of foreignness. The Uppsala process model versus born-global firms. Springboard internationalization by emerging-market MNEs. B: Case: Jollibee Foods — a Philippine firm that held its home market against McDonald's and then went abroad. How far does home-market advantage travel?
	Why does the MNE exist?

Seventh week	A: Hymer on market imperfections, Buckley and Casson on internalization, Dunning's OLI paradigm. This is the theory behind the ownership test already applied in Week 3 — it supplies vocabulary for a logic students have used, rather than a new logic. B: Integration workshop — apply OLI to two firms of the students' choosing and peer-review the results. Midterm review.
Eighth week	Midterm examination and project checkpoint
Ninth week	The institution-based view: the rules of the game A: formal institutions — political systems, legal systems (common versus civil law), economic systems, property and intellectual property protection. Informal institutions — culture, ethics, norms. How institutions both constrain strategic choice and create opportunity. B: Case: United Cereal — the European entry decision and the local-versus-global product question, showing where institutional difference translates into a product decision.
Tenth week	Global brands: standardization versus adaptation A: the logic and the limits of global brand strategy. Industry structure as a constraint on brand strategy — why standardization works in some industries and not others. B: Case: The Global Branding of Stella Artois, read against beer-industry structure and growth data.
Eleventh week	Cross-border collaboration: alliances and international joint ventures A: why alliances and IJVs form and why they fail. Partner asymmetry, the learning race, the relationship between control and equity, and designing exit conditions. B: Case: The Khus Project — should An salvage the joint venture or dissolve it?
Twelfth week	Nonmarket strategy and host governments A: types and measurement of political risk. The host-government bargaining model. How geopolitical fragmentation, export controls, and economic-security logic bear on firm strategy. The strategic implications of trade policy and regional economic integration. B: Case: IKEA in Saudi Arabia (A)(B)(C), run with sequential distribution — decision-making when host norms and parent values collide.
Thirteenth week	Sustainability and ESG as global strategy A: CSR, sustainability, and ESG distinguished. The Brundtland definition. The case for and against CSR. Porter's four elements. Shifts in the economic, regulatory, and socio-cultural sectors. Life-cycle assessment and the circular economy. Why ESG performance varies with institutional type. B: Case: Vedanta — Niyamgiri, indigenous rights, Church of England divestment, and the 2007–2020 arc. Plus IKEA's climate-positive 2030 target and carbon footprint table.
Fourteenth week	Team Project Presentations
Fifteenth week	Final Examination
Sixteenth week	(not applicable: 15-week course. Final examination held in the university examination period)

[7] Assignments

The first assignment	assignment	Individual case notes	submission date	2026-11-20 Fri
	purpose	a one-page position paper on each assigned case, answering the distributed preparation questions with a reasoned judgement rather than a summary.		
	procedure & notice			
	references			
The second assignment	assignment	Team project checkpoint presentation	submission date	2026-11-06 Fri
	purpose	teams of four to five confirm the MNE to be analysed and present, in five minutes, its internationalization history and the focus of the analysis.		
	procedure & notice			
	references			
The third assignment	assignment	Team project final report and presentation	submission date	2026-12-04 Fri
	purpose	analyse the chosen firm's location choices, entry modes, local competitive strategy, and nonmarket response using the frameworks of the course (ADDING, CAGE, I-R, OLI), and propose a future expansion path.		
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERNATIONAL MANAGEMENT		Course Number	JA06005003		
Major / School Year	Division of Business Administration	/ 2	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김영은	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-203:목(4-5A),금(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course begins from a single question: what is particular about strategy in enterprises whose activities span more than one country? It examines how strategic logic that works domestically changes the moment it crosses a border, and what analytical tools are needed to handle the difference. The course faces outward. Markets, countries, industries, rivals, and governments — the decisions that arise at the firm's boundary with the outside world — are its territory. In sequence: where to go (location), what to take (resources and capabilities), how to enter (entry mode), how to compete once there (competitive dynamics), and how to deal with governments and society (nonmarket strategy and ESG). The core text is Mike W. Peng, Global Business (Cengage). The book's two organizing lenses — the institution-based view and the resource-based view — serve as the analytical language of the semester. Concept lectures are combined with case discussion, working through real decisions at Icebreaker, Global Wine War, Jollibee, United Cereal, Stella Artois, IKEA, and Vedanta.

[2] Course Learning Outcomes

- Explain how strategic decision-making differs structurally once it crosses a national border.
- Understand corporate scope (business, vertical, and geographic) and apply the better-off test and the best alternative test to a specific firm's foreign expansion decision.
- Use the ADDING Value Scorecard to test, along six distinct routes, whether going abroad actually creates value.
- Judge whether acquisition, alliance, or wholly owned entry is appropriate, and justify the choice using transaction cost economics and the OLI paradigm.
- Decompose the distance between candidate markets using the CAGE framework, and design a sequence and mode of entry.
- Diagnose the globalization pressures acting on an industry and position industries and firms on the integration-responsiveness grid.
- Compare liability of foreignness, the Uppsala process model, born-global firms, and emerging-market MNE springboard strategies as accounts of the internationalization path.
- Use the institution-based view to analyse how formal institutions (political, legal, and economic systems) and informal institutions (culture, ethics, and norms) constrain strategic choice.
- Judge global brand standardization versus adaptation decisions from the perspective of industry structure.
- Build a nonmarket strategy that accounts for political risk, host-government bargaining, geopolitical fragmentation, and export controls.
- Analyse ESG and sustainability as components of international strategy rather than as cost, and design responses to stakeholder pressure.
- Participate in case discussion from a defensible position and analyse one MNE as a team, presenting the results persuasively.

[3] Class Delivery Method

The course meets twice weekly (approximately 75 minutes each), combining online delivery (recorded video and live video sessions) with in-person sessions. The standard pattern is:

- (1) Pre-recorded lecture (asynchronous online): the basic exposition of each concept and framework is delivered by recorded video. Students must work through the assigned chapter and the video before the session.
- (2) In-person or live online session: time is spent applying the pre-studied framework to real situations. The session is for application, discussion, and questions — not for repeating the lecture.
- (3) Case method: each case is distributed with three or four preparation questions at least one week in advance. Students must arrive having read the case and formed a position; cold-calling is used. Case materials are copyright-protected and may not be electronically copied or redistributed.
- (4) Team project: teams of four to five select one MNE and analyse its expansion history, location choices, entry modes, and local competition, presenting in Week 15.
- (5) Attendance and Participation
- (6) Sections 003 and 004 run on an identical syllabus and identical assessment criteria.

Ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	10 %	10 %	0 %	0 %	0 %

Ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

- Examinations 40% = final 20% + midterm 20%. The final is an essay paper in which students answer two of four questions, assessing the ability to apply a framework to a specific firm situation.
- Attendance and participation 20%
- Assignments 40% = team project report and presentation 30% + individual case notes 10%.
- Failure to view the assigned recorded lectures is treated as equivalent to absence.

· Plagiarism and undeclared use of generative AI are handled under university regulations. Any AI use must be declared with its scope.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Peng, M. W.	Publisher	Cengage Learning	Textbook	Global Business (6th ed.)	Issued year	2026
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Other materials: Cases — Icebreaker (A) (Ivey), Global Wine War 2009 (HBS), Jollibee Foods Corporation (HBS), United Cereal (HBS), The Global Branding of Stella Artois (Ivey), The Khus Project, IKEA in Saudi Arabia (A)(B)(C), Vedanta Resources. Articles — Zaheer (1995) AMJ; Johanson & Vahlne (1977; 2009) JIBS; Luo & Tung (2007) JIBS; Sethi & Guisinger (2002) JIB; Beamish & Lupton (2016) Journal of World Business; Ghemawat (2001) HBR, Distance still matters. Cases are distributed under the university's HBSP and Ivey licences and may not be electronically copied or redistributed. Articles are posted to the LMS in the week before use.

[6] Weekly lesson plans

First week	Introduction to Global Business the opening question — what is particular about strategy in enterprises whose activities span more than one country? Topics of globalization and deglobalization. Drivers of internationalizations. The VUCA environment and the local consequences of global connectivity. Global company identification exercise
Second week	Corporate scope, the geographic dimension, and the ADDING Value Scorecard A: business versus corporate strategy; the two central questions of corporate strategy; the better-off test and the best alternative test. Vertical, horizontal, and geographic scope. Transaction cost economics. B: the ADDING Value Scorecard — Adding volume, Decreasing costs, Differentiating, Improving industry attractiveness, Neutralizing risk, Generating knowledge. The intuition that "going abroad is good" is decomposed into six testable routes.
Third week	The ownership test and the foreign entry decision: what, where, how A: acquire or ally? Types of synergy (modular, sequential, reciprocal), soft resources, redundant resources, market uncertainty, and competitive pressure. The fundamental paradox of information. B: location advantages (market-, resource-, efficiency-, and strategic-asset-seeking); the CAGE distance framework (cultural, administrative, geographic, economic); sequence of entry; and the entry-mode ladder read on commitment and control.
Fourth week	Case: Icebreaker (A) A: why internationalize at all? Is Icebreaker actually better off as a global firm than as a New Zealand one? What were the sources of past success, and which stages of the supply chain must be controlled directly? B: sequence of entry — New Zealand to the US, Europe, Korea, and China. Transferability of the success formula. The ownership test from Week 3 applied for real. Setting launch criteria. Postscript: the 2018 VF acquisition and the 2023 China entry. Reading: Peng Ch.9 (Growing and Internationalizing the Entrepreneurial Firm)
Fifth week	Industry globalization forces and the integration-responsiveness framework A: plotting industries against pressures for integration and for local responsiveness — consumer electronics, telecom routers, automobiles, cement, packaged foods. Toyota, Honda, and Fiat compared. B: Case: Global Wine War 2009 — New World versus Old World. Students then plot semiconductors, canned foods, and pharmaceuticals on the I-R grid and defend their placements.
Sixth week	Liability of foreignness, distance, and the local champion A: the sources of liability of foreignness. The Uppsala process model versus born-global firms. Springboard internationalization by emerging-market MNEs. B: Case: Jollibee Foods — a Philippine firm that held its home market against McDonald's and then

	went abroad. How far does home–market advantage travel?
Seventh week	Why does the MNE exist? A: Hymer on market imperfections, Buckley and Casson on internalization, Dunning’s OLI paradigm. This is the theory behind the ownership test already applied in Week 3 — it supplies vocabulary for a logic students have used, rather than a new logic. B: Integration workshop — apply OLI to two firms of the students’ choosing and peer-review the results. Midterm review.
Eighth week	Midterm examination and project checkpoint
Ninth week	The institution–based view: the rules of the game A: formal institutions — political systems, legal systems (common versus civil law), economic systems, property and intellectual property protection. Informal institutions — culture, ethics, norms. How institutions both constrain strategic choice and create opportunity. B: Case: United Cereal — the European entry decision and the local–versus–global product question, showing where institutional difference translates into a product decision.
Tenth week	Global brands: standardization versus adaptation A: the logic and the limits of global brand strategy. Industry structure as a constraint on brand strategy — why standardization works in some industries and not others. B: Case: The Global Branding of Stella Artois, read against beer–industry structure and growth data.
Eleventh week	Cross–border collaboration: alliances and international joint ventures A: why alliances and IJVs form and why they fail. Partner asymmetry, the learning race, the relationship between control and equity, and designing exit conditions. B: Case: The Khus Project — should An salvage the joint venture or dissolve it?
Twelfth week	Nonmarket strategy and host governments A: types and measurement of political risk. The host–government bargaining model. How geopolitical fragmentation, export controls, and economic–security logic bear on firm strategy. The strategic implications of trade policy and regional economic integration. B: Case: IKEA in Saudi Arabia (A)(B)(C), run with sequential distribution — decision–making when host norms and parent values collide.
Thirteenth week	Sustainability and ESG as global strategy A: CSR, sustainability, and ESG distinguished. The Brundtland definition. The case for and against CSR. Porter’s four elements. Shifts in the economic, regulatory, and socio–cultural sectors. Life–cycle assessment and the circular economy. Why ESG performance varies with institutional type. B: Case: Vedanta — Niyamgiri, indigenous rights, Church of England divestment, and the 2007–2020 arc. Plus IKEA’s climate–positive 2030 target and carbon footprint table.
Fourteenth week	Team Project Presentations
Fifteenth week	Final Examination
Sixteenth week	(not applicable: 15–week course. Final examination held in the university examination period)

[7] Assignments

The first assignment	assignment	Individual case notes	submission date	2026–11–20 Fri
	purpose	a one–page position paper on each assigned case, answering the distributed preparation questions with a reasoned judgement rather than a summary.		
	procedure & notice			
	references			
The second assignment	assignment	Team project checkpoint presentation	submission date	2026–11–06 Fri
	purpose	teams of four to five confirm the MNE to be analysed and present, in five minutes, its internationalization history and the focus of the analysis.		
	procedure & notice			
	references			
The third assignment	assignment	Team project final report and presentation	submission date	2026–12–04 Fri
	purpose	analyse the chosen firm’s location choices, entry modes, local competitive strategy, and nonmarket response using the frameworks of the course (ADDING, CAGE, I–R, OLI), and propose a future expansion path.		
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERNATIONAL MANAGEMENT		Course Number	JA06005002		
Major / School Year	Division of Business Administration	/ 2	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 박현준	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358508	A weekday / class / lecture room	[14-201:화(8B-9)] [14-203:월(8B-9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This is an introductory course in international business. The essential content of the course includes:

1. an overview of the means of conducting international business, with an emphasis on what makes international different from domestic;
2. the effects of the social systems within countries on the conduct of international business;
3. the major theories explaining international business transactions and the institutions influencing those activities;
4. the financial exchange systems and institutions that measure and facilitate international transactions;
5. the dynamic interface between countries and companies attempting to conduct foreign business activities;
6. corporate strategy alternatives for global operations; and
7. international activities that fall largely within functional disciplines.

[2] Course Learning Outcomes

1. Understand the different challenges businesses face when they operate in an international environment.
2. Examine the various cultural, political, and legal issues that impact international business activity.
3. Examine the international institutions and practices that impact international business.
4. Understand trade and investment theory, foreign exchange, and the determination of foreign exchange rates.
5. Appreciate the interaction of business and government as they relate to international commerce.
6. Develop insight into the management implications of international business strategy and operations.

[3] Class Delivery Method

Each week a new chapter will be lectured. For each week, I advise that students to read the assigned chapter before entering into the classroom for better understanding of the materials.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	30 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	10 %	0 %	0 %	10 %

[4] Grading Policies

Attendance and Participation: 20%

Case Questions: 20%

Midterm: 30%

Final: 30%

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Charles W. L. Hill, G. Tomas M. Hult	Publisher	McGraw-Hill	Textbook	International Business: Competing in the Global Marketplace	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	최순규, 신형덕	Publisher	HS Media Publishing & Agency	Textbook	International Business	Issued year	20110822
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and course overview (Zoom Class for this week only)
Second week	Chapter 1: Globalization (I)
Third week	Chapter 1: Globalization (II)
Fourth week	Chapter 2: National Differences in Political Economy (I)
Fifth week	Chapter 2: National Differences in Political Economy (II)
Sixth week	Chapter 3: Differences in Culture (I)
Seventh week	Chapter 3: Differences in Culture (I)
Eighth week	Midterm Exam
Ninth week	Chapter 4: Ethics in International Theory (I)
Tenth week	Chapter 4: Ethics in International Theory (II)
Eleventh week	Chapter 5: International Trade Theory
Twelfth week	Chapter 7: Foreign Direct Investment
Thirteenth week	Chapter 12: The Strategy of International Business (I)
Fourteenth week	Chapter 12: The Strategy of International Business (II)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ORGANIZATIONAL BEHAVIOR		Course Number	JA06009005		
Major / School Year	Division of Business Administration	/ 2	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 황태진	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-507:수(8B-9),목(4-5A)]			
Office hours	Thursday & Friday, 13:30-15:00		Medium of Instruction	EN		

[1] Outline / Purpose

Organizational behavior is a field of study that seeks to understand, explain, and improve human behavior in organizations. Most organizations focus their efforts on improving two aspects of human behavior: (1) job performance—the degree to which individuals perform the behaviors needed for the organization to achieve its goals; and (2) organizational commitment—the degree to which employees remain loyal to the organization rather than seeking employment elsewhere. This course will guide you through a model that seeks to explain these two areas of organizational behavior.

[2] Course Learning Outcomes

1. Learn and apply theoretical concepts and frameworks related to the understanding, prediction, and management of human behavior in organizational settings.
2. Develop an ongoing interest in real-world cases related to how humans think, feel, and behave.
3. Explain your ideas in a comprehensive manner.

[3] Class Delivery Method

All classes will be held in-person.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	30 %	0 %	0 %	20 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

* The two exams will consist of true/false questions, multiple-choice questions, short answers, and a long-form essay. The exams will cover items from all elements of the class (e.g., slides, cases, discussions, etc.). Exams are NOT cumulative; they will only test material covered since the previous exam.

* The aim of the team project is to demonstrate your knowledge of organizational behavior, by studying a failure from an organizational perspective. Companies, non-profits, clubs, and governments can damage their relationships with important stakeholders or even cause harm to their employees. Some of these failures can be the result of neglecting organizational behavior factors. Students will need to select an organizational failure that occurred in the last three years. After choosing your case, your task is to identify organizational behavior theories, concepts, and ideas that best explain the case, and then to evaluate what the organization did to recover from the failure and whether its responses were effective.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

This class will mainly use power-point slides.

[6] Weekly lesson plans

First week	Course Overview: Introduction to Organizational Behavior
Second week	Individual Differences
Third week	Motivation
Fourth week	Decision Making
Fifth week	Diversity, Equity, and Inclusion
Sixth week	Team Competition
Seventh week	A review of Exam 1 & Exam 1
Eighth week	Power & Influence
Ninth week	Leadership
Tenth week	Groups & Teams
Eleventh week	Group Project Checking-in
Twelfth week	Happiness & Career Management
Thirteenth week	Organizational Structure
Fourteenth week	Group presentations
Fifteenth week	A review of Exam 2 & Exam 2
Sixteenth week	

[7] Assignments

The first assignment	assignment	Team project proposal	submission date	2026-10-30 Fri
	purpose	Teams will pitch their ideas for final presentation		
	procedure & notice			
	references			
The second assignment	assignment	Team final presentation	submission date	2026-11-27 Fri
	purpose	Teams will present their semester-long project about organizational failure		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERNATIONAL MARKETING		Course Number	JA06025001		
Major / School Year	Division of Business Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 허승	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-201:목(4-5A)] [14-203:수(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course intends to serve as an introduction to international marketing through exploring various ideas of marketing in global environments.

[2] Course Learning Outcomes

From this course, you will learn how to overcome diverse challenges in global markets and successfully introduce new products, design price schemes, communicate product values, and distribute products through intermediaries in markets in different countries, all of which require deep understanding of various types of customers in related markets.

[3] Class Delivery Method

This is a blended course and there will be both online and offline classes. Details will be provided later.

ASSIGNMENTS : Post-session surveys (Individual), Global Repositioning Project (Group)

EXAMS : There will be 2 closed book exams which consist of multiple-choice questions. The questions will test the concepts and knowledge presented in class.

GUEST LECTURE : A guest speaker who has sufficient professional experience in the field of international marketing will visit our classroom to talk about actual marketing decisions and answer any questions you might have. More details including the schedule of the lecture will be provided later.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Warren J. Keegan and Mark C. Green	Publisher	Pearson	Textbook	Global Marketing, 11th edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction The Marketing Concept
Second week	Introduction to Global Marketing The Global Economic Environment
Third week	The Global Trade Environment Social and Cultural Environments
Fourth week	The Political, Legal, and Regulatory Environments Global Information Systems and Market Research
Fifth week	Segmentation, Targeting, and Positioning
Sixth week	Importing, Exporting, and Sourcing Global Market-Entry Strategies
Seventh week	Guest Lecture
Eighth week	Midterm Exam
Ninth week	Midterm Review Brand and Product Decisions
Tenth week	Pricing Decisions Global Marketing Channels
Eleventh week	Global Marketing Communications 1 Global Marketing Communications 2
Twelfth week	Global Marketing and the Digital Revolution Strategic Elements of Competitive Advantage
Thirteenth week	Leadership, Organization, and CSR Case analysis
Fourteenth week	Group Presentations
Fifteenth week	Group Presentations
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTERNATIONAL MARKETING		Course Number	JA06025002		
Major / School Year	Division of Business Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 허승	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-203:수(7-8A)] [14-507:목(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course intends to serve as an introduction to international marketing through exploring various ideas of marketing in global environments.

[2] Course Learning Outcomes

From this course, you will learn how to overcome diverse challenges in global markets and successfully introduce new products, design price schemes, communicate product values, and distribute products through intermediaries in markets in different countries, all of which require deep understanding of various types of customers in related markets.

[3] Class Delivery Method

This is a blended course and there will be both online and offline classes. Details will be provided later.

ASSIGNMENTS : Post-session surveys (Individual), Global Repositioning Project (Group)

EXAMS : There will be 2 closed book exams which consist of multiple-choice questions. The questions will test the concepts and knowledge presented in class.

GUEST LECTURE : A guest speaker who has sufficient professional experience in the field of international marketing will visit our classroom to talk about actual marketing decisions and answer any questions you might have. More details including the schedule of the lecture will be provided later.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Warren J. Keegan and Mark C. Green	Publisher	Pearson	Textbook	Global Marketing, 11th edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction The Marketing Concept
Second week	Introduction to Global Marketing The Global Economic Environment
Third week	The Global Trade Environment Social and Cultural Environments
Fourth week	The Political, Legal, and Regulatory Environments Global Information Systems and Market Research
Fifth week	Segmentation, Targeting, and Positioning
Sixth week	Importing, Exporting, and Sourcing Global Market-Entry Strategies
Seventh week	Guest Lecture
Eighth week	Midterm Exam
Ninth week	Midterm Review Brand and Product Decisions
Tenth week	Pricing Decisions Global Marketing Channels
Eleventh week	Global Marketing Communications 1 Global Marketing Communications 2
Twelfth week	Global Marketing and the Digital Revolution Strategic Elements of Competitive Advantage
Thirteenth week	Leadership, Organization, and CSR Case analysis
Fourteenth week	Group Presentations
Fifteenth week	Group Presentations
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Management of Multinational Enterprise	Course Number	0012415001
Major / School Year	Division of Business Administration / 3	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 김영은	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [14-203:목(01-2A)(012B-3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course examines how multinational enterprises (MNEs) organize, coordinate, control, and govern operations that span national borders. Where International Business Strategy faces outward — asking where a firm should compete and how it should enter — this course faces inward, asking how a firm should manage what it has already come to own. The territory of the course is therefore everything that begins after the entry decision: headquarters–subsidiary relations, organizational structure, control systems, worldwide innovation and learning, cross–border collaboration, culture and people, and subsidiary and corporate governance.

The core text is Bartlett, Beamish & Delios, Transnational Management: Concepts and Cases in Cross–Border Management (9th ed., Cambridge University Press, 2025). The book’s integrated framework — strategic imperatives, then the organizational challenge, then the managerial implications — provides the architecture of the semester.

Teaching combines conceptual lectures, case discussion, and hands–on data labs. Recent research by the instructor on foreign subsidiary governance, board composition, and the institutional determinants of ESG performance is used as supplementary material, connecting textbook frameworks to live questions in international business research.

The institutional environment of emerging economies, which the core text treats only lightly, is reinforced in Week 12 through direct work with Transparency International’s Corruption Perceptions Index, the World Bank’s Business Ready (B–READY), the Worldwide Governance Indicators, and Vietnam’s Provincial Competitiveness Index — treating institutions as a measurable variable rather than as background.

[2] Course Learning Outcomes

- Explain why MNEs exist and why a particular foreign subsidiary was established (market–, resource–, efficiency–, and strategic–asset–seeking motives), and derive the implications of motive for subsidiary mandate and governance.
- Use the integration–responsiveness framework to diagnose the strategic position of an industry and a firm, and derive an appropriate organizational form from that diagnosis.
- Compare international–division, area, product, and matrix structures, and explain how administrative heritage constrains reorganization.
- Distinguish administrative, strategic, and operating control in the headquarters–subsidiary relationship, and prescribe the type of control a given situation requires.
- Design the board composition and ownership structure of a foreign subsidiary and defend those choices using agency, institutional, and legitimacy theory.
- Compare national corporate governance systems and apply the distinction between the board’s wealth–protector and wealth–creator roles.
- Critically evaluate cultural distance and its measures (Hofstede, GLOBE, the Kogut–Singh index) — what they capture and what they miss.
- Build an expatriate selection, training, and repatriation plan, and diagnose problems arising in multicultural teams and cross–border negotiations.
- Profile the institutional environment of an emerging economy using CPI, WGI, B–READY, and PCI, and critically evaluate what each index measures and what it misses.
- Analyse ethics, corruption, and supply–chain responsibility in the MNE from an institutional perspective and propose organizational remedies.
- Participate in case discussion from a defensible position, test theoretical claims against real firm data, and present the results persuasively.

[3] Class Delivery Method

The course runs as a weekly block of approximately 3 hours, structured as: 75 minutes of concept–based lecture, a 15–minute break, then 75 minutes of case discussion or data lab.

(1) Lecture: develops the framework from the assigned textbook chapter, extended through academic articles and the instructor’s own research. Students are expected to have read the chapter in advance.

(2) Case method: each case is distributed with three or four preparation questions. Students must arrive having read the case and formed a position: cold–calling is used. Cases are drawn principally from the core text, so no separate case purchase is required.

(3) Data labs: students test theoretical claims against public data — UNCTAD World Investment Report, Export–Import Bank of Korea FDI statistics, company annual reports. Lab outputs are submitted at the end of the session or before the next class.

(4) Team project: teams of three to four select one MNE and explain its organization, control system, and governance using the frameworks of the course, presenting in Week 14.

(5) Attendance and Class Participation

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	30 %	30 %	15 %	5 %	0 %	0 %	0 %

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	55 %	0 %	10 %	0 %	25 %	0 %

[4] Grading Policies

- Examinations 40% = final 20% + midterm 20%, both combining concept definition, framework application, and case-based essay questions.
- Attendance 20% = attendance 10% + Active Class Participation 10%, graded against the 0/35/50/65/85 ACP rubric distributed in Week 1.
- Assignments 40% = team project report and presentation 20% + individual case notes and lab outputs 20%.
- Unexcused absences reduce the relevant component; exceeding the university absence threshold results in a grade of F.
- Plagiarism and undeclared use of generative AI are handled under university regulations. Any AI use must be declared with its scope.

@ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bartlett, C. A., Beamish, P. W., & Delios, A.	Publisher	Cambridge University Press	Textbook	Transnational Management: Concepts and Cases in Cross-Border Management (9th ed.)	Issued year	2025
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Peng, M. W	Publisher	Cengage Learning	Textbook	Global Business (current ed.)	Issued year	2022
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Other readings: Rugman & Verbeke (2004) JIBS; Meyer, Li & Schotter (2020) JIBS; Kogut & Singh (1988) JIBS; Khanna & Palepu on institutional voids in emerging markets; Hall & Soskice (2001), Varieties of Capitalism; Luo & Tung (2007) JIBS; Tung (1987); Shay & Baack (2004); Short & Toffel (2021) HBR; Luo, Kim & Li (2025) Multinational Business Review; Kim & Ozdemir (2014) Corporate Governance: An International Review; Kim & Ozdemir (2026) IBR; Oh, Shin & Kim on institutions and ESG performance. Articles are distributed via the LMS in the week before use. Cases are drawn from the core text and Ivey business cases.

Lab data sources (all free and public): (1) UNCTAD, World Investment Report 2026 — International Investment in a Turbulent Era, annex tables (FDI flows and stocks by economy; the world's largest MNEs ranked by foreign assets); (2) Export-Import Bank of Korea outward FDI statistics, by destination and industry; (3) Vietnam Foreign Investment Agency (MPI); (4) DART electronic disclosure and company segment reporting; (5) Transparency International Corruption Perceptions Index; (6) World Bank Business Ready (B-READY) 2025; (7) World Bank Worldwide Governance Indicators; (8) Vietnam Provincial Competitiveness Index and Provincial Green Index, pcivietnam.vn. Note: UNCTAD country FDI figures are balance-of-payments data, capturing financial flows rather than real activity and distorted by conduit jurisdictions such as Singapore. That discrepancy is itself a lab discussion point.

[6] Weekly lesson plans

First week	[Introduction] What is a multinational enterprise? Theory: the scale and scope of MNE activity; the VUCA operating environment; global managers are made, not born. Course mechanics, the ACP rubric, and case-preparation norms. Lab: using the UNCTAD World Investment Report 2026 annex tables and Export-Import Bank of Korea FDI statistics, map Korea's outward and inward FDI by destination and industry, and locate the Korean firms in the ranking of the largest MNEs by foreign assets.
Second week	Theories of the MNE. Why does this subsidiary exist? FDI motive and subsidiary mandate Theory: a compressed treatment of FDI-motive typology (market-, resource-, efficiency-, and strategic-asset-seeking) and the OLI paradigm. How motive shapes what a subsidiary is built to do — and therefore how it must later be governed. Internationalization Theory. TCE ★Lab: one home country, one host country, five entry modes. Teams take one Korean firm in Vietnam each
Third week	Global integration versus local responsiveness Theory: the I-R framework and the four strategic postures. How integration pressure differs across industries — consumer electronics, telecom equipment, automobiles, cement, packaged foods, restaurant chains. Rugman & Verbeke's challenge: are MNEs global, or regional?
Fourth week	Developing transnational strategies: building layers of competitive advantage Theory: pursuing efficiency, flexibility, and learning simultaneously through three means. From single-source advantage to layered advantage. The four management mentalities and their evolution. Case: United Cereal — the European entry decision and the local-versus-global product question.
Fifth week	Organizing the MNE: structure and administrative heritage (integration, responsiveness, and flexibility) Theory: stakeholders, strategies, and structures. International division, area, product, and matrix forms. Why structure lags strategy. Administrative heritage as a constraint, and the politics of reorganization.

	Case: Kent Chemical — Organizing for International Growth (text case 4.3)
Sixth week	Headquarters–subsidiary relations, control, and subsidiary governance Theory (first half): subsidiary mandates and role typologies; how the HQ–subsidiary relationship evolves over the subsidiary life cycle; administrative versus strategic versus operating control. Theory (second half): who governs the foreign subsidiary — board composition, parent ownership, and the background of the subsidiary CEO. The search for local legitimacy. How the FDI motive from Week 2 and business relatedness drive governance design.
Seventh week	Building transnational management capabilities Theory: multidimensional management capability — the roles of, and tensions among, business managers, country managers, functional managers, and top management. How individual managerial capability substitutes for or complements structure. Case: Levendary Café — The China Challenge (text case 7.3). What kind of manager should Louis Chen have been? What control should Mia Foster install, and whom should she appoint?
Eighth week	Midterm examination
Ninth week	Creating worldwide innovation and learning Theory: stimulating and capturing ideas wherever they occur; linking and leveraging dispersed resources; diffusing best practice. The center–for–global, local–for–local, locally leveraged, and globally linked models, with P&G’s SK-II as the worked example. Case: GE’s Evo Project — reverse innovation.
Tenth week	Cross–border collaboration: alliances, joint ventures, and negotiation Theory: why alliances and IJVs form and fail; partner asymmetry and the learning race; the relationship between control and equity and the design of exit conditions; the fundamentals of cross–border negotiation including high– and low–context communication, trust, and BATNA. Case: Nora–Sakari — A Proposed JV in Malaysia (text case 6.2), run as a team negotiation simulation.
Eleventh week	Corporate governance in the MNE Theory: what is a firm — the resource–based view (VRIO) versus agency theory’s nexus of contracts. Separation of ownership and control. Internal mechanisms (board, executive compensation, ownership concentration) and external mechanisms (market for corporate control, law, auditors, analysts, media). The board’s wealth–protector versus wealth–creator roles. How national institutions produce distinct governance bundles. Scales the Week 6 subsidiary analysis up to the parent. Lab: compare board structure and disclosure for one Korean, one US, and one German MNE.
Twelfth week	Theory (first half) — institutions (focus on emerging economies): institutional voids in emerging economies and firm responses. Varieties of capitalism — liberal, coordinated, and state–led market economies. The causes and consequences of corruption. Critique of the indices: Transparency International’s CPI measures perception, not incidence. The World Bank discontinued Doing Business in 2021 after a data–manipulation controversy; its successor, Business Ready (B–READY), covered 50 economies in 2024 and 101 in 2025. The six dimensions of the Worldwide Governance Indicators. Subnational measurement — Vietnam’s Provincial Competitiveness Index and Provincial Green Index, produced annually since 2005 by VCCI with USAID from surveys of more than 10,000 firms, with methodology designed by Edmund Malesky of Duke University. Theory (second half) — culture: Hofstede’s six dimensions, the GLOBE project, cultural clusters. The Kogut–Singh index and its critics. How national culture shapes organizational decision–making, corporate culture, and managerial role expectations. ★Lab: a Korea–Vietnam distance profile. Half the teams compute institutional distance from CPI, WGI, and B–READY; the other half compute cultural distance from Kogut–Singh. The results are then set against each other. Central questions: do the two distances measure the same thing? And can national indices explain why Samsung chose Bac Ninh in particular? Provincial PCI variation supplies the test. Discussion hook: the 2024 PCI was the final report to assess the 63–province structure before administrative restructuring. What happens to twenty years of comparability when the units being ranked cease to exist?
Thirteenth week	CSR, Sustainability, and ESG in MNEs Theory: CSR, sustainability, and ESG distinguished. Supply–chain responsibility. The institutional determinants of ESG performance — connecting the Week 12 indices to outcome variables. The future of the transnational and its evolving social role. Synthesis of the semester. Case: Vedanta — Niyamgiri, indigenous rights, and Church of England divestment, asked as an organizational question: how should the subsidiary and the supplier relationship have been governed so that this did not happen? Case: IKEA’s Global Sourcing Challenge — Indian Rugs and Child Labor (text case 8.1), asked as an organizational question: how should the subsidiary and the supplier relationship have been governed so that this did not happen?
Fourteenth week	Team project final presentations (full block)
Fifteenth week	Final examination Covering the full semester, weighted toward material from Week 9 onward.
Sixteenth week	15주 수업 운영 과목으로 해당사항 없음

[7] Assignments

	assignment	Individual case notes and lab outputs	submission date	2026–11–20 Fri
The first	purpose	for each assigned case, submit a one–page position paper answering the preparation questions; for lab weeks, submit the computation and its interpretation. The aim is practice in applying theory to real data.		

assignment	procedure & notice			
	references			
The second assignment	assignment	Team project proposal	submission date	2026-11-04 Wed
	purpose	in teams of three to four, select the MNE to be analysed and set out, in no more than two pages, which organizational, control, or governance problem will be examined and through which theory.		
	procedure & notice			
	references			
The third assignment	assignment	Team project final presentation	submission date	2026-12-02 Wed
	purpose	explain the chosen firm's organizational structure, HQ-subsidary control system, and board and ownership structure using the frameworks of the course, and propose improvements.		
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Machine Learning and Data Mining	Course Number	0012416001
Major / School Year	Division of Business Administration / 3	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 안진원	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358715	A weekday / class / lecture room	[14-103:화(4-5A)] [14-220:수(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course is an introduction to machine learning and data mining, taught in English. Rather than surveying many algorithms, it is organized around the machine-learning workflow — framing a question, preparing data, separating training and test sets, modeling, evaluating honestly, improving, and reporting — practiced repeatedly until it becomes routine. All modeling is classification, and only three representative models are taught (decision trees, logistic regression, and random forests) as vehicles for the workflow. Prior knowledge of Python is a plus, but you can do well without it if you bring a willingness to study hard: you will rarely write code from a blank page — most Python in this course is recurring, patterned code implemented through Codex, which is far easier than coding everything yourself. That said, knowing some Python in advance will make the semester more comfortable.

An AI coding tool (Codex) is fully integrated into the course: students learn to use it productively, to verify its output, and to configure it with AGENTS.md instruction files, while remaining accountable for everything they submit. Each session pairs about 30 minutes of instruction with 30 minutes of hands-on practice, and the semester concludes with an individual classification project covering the entire workflow, presented in person.

Note: this is the first offering of this course built around AI coding tools. Its content and pace may be adjusted during the semester in response to how students are progressing — active participation and honest feedback are therefore expected and essential.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Use basic Python and pandas to load, clean, aggregate, and visualize tabular data.
2. Carry out the classification workflow end to end — question framing, data preparation (including categorical encoding and leakage avoidance), and modeling with decision trees, logistic regression, and random forests.
3. Evaluate and improve models honestly: choose metrics wisely (confusion matrix, precision/recall, the accuracy trap on imbalanced data), diagnose overfitting, apply K-fold cross-validation and hyperparameter tuning, and compare models fairly.
4. Communicate analyses in well-structured markdown reports, and use an AI coding tool productively and accountably — reading, verifying, explaining, and configuring it via AGENTS.md.

[3] Class Delivery Method

1. Instruction and practice: concepts are taught through worked examples rather than mathematical derivations, and students immediately apply them to the week's dataset on their own laptops (you should bring your own device) in a unified VSCode + Python + Codex environment, with the instructor circulating and giving feedback.
2. AI integration and accountability: using and configuring the AI coding tool (via AGENTS.md files) is a formal part of the curriculum. AI use is fully permitted, but students must be able to explain and modify everything they submit — verified through random in-class code reviews and the final presentation.
3. Assignments and project: in-class assignments practice analysis and markdown reporting on new data: in Week 12 each student selects a classification dataset and completes a full-workflow individual project, developed in workshop weeks 13-14 with one-on-one mentoring and presented in Week 15.
4. Codex (ChatGPT) subscriptions will be given out to students, which will be used throughout the semester.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handout materials	Issued year

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course orientation – what machine learning is and what this course builds toward; course policies, evaluation, and the AI accountability rule; setting up the environment (Python, VSCode, Codex installation and sign-in); Codex basics (writing requests, running generated code, approvals); installing and verifying the course-standard AGENTS.md configuration file.
Second week	Python basics (1) – variables and data types, type conversion, lists and dictionaries, indexing and slicing, reading conditionals (if/elif) and loops (for); using Codex as a study partner (line-by-line explanations, asking about error messages). Lab: a first mini-analysis using basic syntax.
Third week	Python basics (2) and introduction to pandas – functions and methods, import statements; the DataFrame: loading a CSV file (read_csv); inspecting data (head, info, describe, value_counts); selecting columns and filtering rows with conditions. Lab: answering questions about a real dataset with pandas.
Fourth week	Data cleaning and visualization – finding and handling missing values (dropna/fillna), identifying outliers, group comparisons with groupby, creating derived columns (including binning with pd.cut), core chart types (histogram, box plot, count/bar plot, scatter plot), and saving figures for reports. Lab: cleaning and visualizing a real dataset.
Fifth week	Exploratory data analysis (EDA) and configuring Codex (AGENTS.md) – the EDA checklist and workflow; writing analysis reports in markdown; the structure and rules of AGENTS.md (controlling code style, allowed libraries, and report format), with a before/after comparison experiment; the concept of Skills (overview only). Lab: producing an EDA report with Codex and verifying it. Assignment: EDA report.
Sixth week	The machine-learning workflow and your first model – the end-to-end workflow map (question, prepare, split, model, evaluate, improve, report); features and labels; training/test separation and why a model is never graded on its training data; the scikit-learn pattern (fit/predict/score); first classifier: a decision tree, visualized and interpreted. Practice: building and evaluating a first tree classifier.
Seventh week	Evaluating classifiers – beyond accuracy: the confusion matrix, precision and recall, the accuracy trap on imbalanced data, and choosing evaluation metrics from the cost of different errors. No new model this week – evaluation in depth. Practice: evaluating and comparing classifiers with multiple metrics.
Eighth week	Preparing data for models – encoding categorical variables (one-hot), fitting preparation steps on training data only (avoiding data leakage), the baseline–first habit: second model: logistic regression and reading coefficient directions. Practice: an encoding-plus-modeling pipeline. Midterm check assigned: mini-analysis (EDA plus one classifier, submitted as a markdown report).
Ninth week	Overfitting and cross-validation – underfitting vs overfitting through deep-vs-shallow tree experiments; why a single train/test split can mislead; K-fold cross-validation (cross_val_score) as the honest measure of generalization. No new model this week. Practice: diagnosing overfitting and applying cross-validation.
Tenth week	Hyperparameter tuning and the third model – tuning with GridSearchCV; random forests (many trees voting) and feature importance; the fair model-comparison protocol (same data, same folds, same metric). Practice: tuning and comparing all three models.
Eleventh week	The workflow end-to-end with error analysis – a guided full cycle on business data: clean, encode, baseline, tune, evaluate; error analysis (examining the cases the model gets wrong); a three-model tournament with cross-validation. Practice: completing the full cycle on a customer-churn dataset.
Twelfth week	A second full cycle and project kickoff – a semi-guided end-to-end analysis with reduced scaffolding; building a project-specific AGENTS.md (data description, analysis goal, report format); individual project guidance, candidate datasets released, and project topics confirmed.
Thirteenth week	Project workshop (1) – individual project analysis (EDA and modeling) with one-on-one mentoring and code review.
Fourteenth week	Project workshop (2) – model improvement and interpretation, completing the markdown report, presentation preparation, and code-explanation checks.
Fifteenth week	Final presentations – each student presents their individual project, focusing on their understanding of their own code and analysis results; Q&A; course wrap-up and feedback.
Sixteenth week	

[7] Assignments

	assignment		submission date	

The first assignment	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	SERVICE OPERATIONS MANAGEMENT		Course Number	JA06027001		
Major / School Year	Division of Business Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김태호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358733	A weekday / class / lecture room	[14-203:월(2B-3)] [14-507:목(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Service Operations Management addresses the design and management of systems for services. This course will combine operations, marketing, and human resources aspects of services using both text material and cases. A sampling of topics addressed includes service facility design, layout, and location, service quality, managing queues, managing capacity and demand, the service encounter, forecasting and project management. A wide survey of service industries will be studied including healthcare, financial services, consulting, entertainment, hospitality, airlines, higher education, and environmental services.

Operations management techniques used to be utilized more in the manufacturing sector than in the service sector. However, there is a trend towards focussing more on operations in services. This is mainly due to the increasing importance of the service sector in the U.S. economy. Over 80% of U.S. jobs now originate in the service sector, so more and more emphasis is being placed on increasing productivity and efficiency in the operations of services.

[2] Course Learning Outcomes

1. To increase students' understanding of the nature and importance of the service sector in the U.S. economy and in other countries.
2. To aid students in effective decision making in the management of a service organization.
? Students should be able to understand the decision-making process in both domestic and international service organizations.
? Students should be able to understand the decision making process in both for-profit and not-for-profit service organizations.
? Students should be aware of the environmental impacts of a service organization's actions.
? Students should be aware of the ethical issues involved in a service organization's actions.
3. To increase students' analytical abilities in solving problems that service manager's face.
4. To expose students to primary and secondary research tools utilized by service managers to effectively run their organizations.

[3] Class Delivery Method

There will be 1 exam and about 2 team projects (which includes a poster to be exhibited). Additionally, there will be some small homework assignments due throughout the semester. 55% metaverse based online lectures and 45% offline lectures. 100% English lectures

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	15 %	15 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	70 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Fitzsimmons/ Fitzsimmons	Publisher	Irwin McGraw-Hill	Textbook	Service Management: Operations, Strategy, and Information Technology	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	The Service Economy
Second week	Service Strategy
Third week	New Service Development
Fourth week	The Service Encounter
Fifth week	Supporting Facility and Process Flows
Sixth week	Service Quality
Seventh week	Process Improvement
Eighth week	Mid Term exam / Service Facility Location
Ninth week	Service Supply Relationships / Globalization of Services
Tenth week	Service efficiency
Eleventh week	Service efficiency / Markov process
Twelfth week	Markov process / Capacity planning
Thirteenth week	Managing Waiting Lines
Fourteenth week	Queuing Models
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	TBA	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Strategic Management Case Studies		Course Number	0012414001		
Major / School Year	Division of Business Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 박현준	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358508	A weekday / class / lecture room	[14-203:수(5B-6)] [14-507:금(4-5A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course introduces students to the core concepts, theories, and analytical frameworks of strategic management. It explores how organizations develop and implement strategies to create and sustain competitive advantage in today's rapidly changing business environment. Through discussions of real-world business cases, students will learn to identify strategic issues, evaluate alternative courses of action, and apply strategic management theories to practical business situations.

[2] Course Learning Outcomes

In addition to case analysis, the course introduces students to case study research and writing. Throughout the semester, students will develop the skills needed to research a company, analyze its strategic challenges, and write a well-organized strategic management case paper. By the end of the course, students will be able to connect strategic management theory with real-world practice and communicate their analyses effectively through written case studies.

[3] Class Delivery Method

Blended Learning Class

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
20 %	20 %	60 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Hill, Charles W. & Schilling, Melissa A.	Publisher	South-Western Cengage Learning	Textbook	Strategic Management	Issued year	
(2)	Author	Grant, Robert M.	Publisher	Wiley	Textbook	Contemporary Strategy Analysis: Concepts, Techniques, applications	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction & What is Strategy?
Second week	External Environment Analysis
Third week	Internal Analysis & Resources
Fourth week	Business–Level Strategy
Fifth week	Corporate–Level Strategy
Sixth week	Global Strategy
Seventh week	Innovation and Strategic Change
Eighth week	Midterm
Ninth week	Introduction to Case Writing
Tenth week	Writing the Company Background
Eleventh week	Writing Industry Background
Twelfth week	Developing Strategic Analysis
Thirteenth week	Writing Recommendation (I)
Fourteenth week	Writing Recommendation (II)
Fifteenth week	Final Case Paper
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Strategic Management Case Studies		Course Number	0012414002		
Major / School Year	Division of Business Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 박현준	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358508	A weekday / class / lecture room	[14-201:수(8B-9)] [14-507:금(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course introduces students to the core concepts, theories, and analytical frameworks of strategic management. It explores how organizations develop and implement strategies to create and sustain competitive advantage in today's rapidly changing business environment. Through discussions of real-world business cases, students will learn to identify strategic issues, evaluate alternative courses of action, and apply strategic management theories to practical business situations.

[2] Course Learning Outcomes

In addition to case analysis, the course introduces students to case study research and writing. Throughout the semester, students will develop the skills needed to research a company, analyze its strategic challenges, and write a well-organized strategic management case paper. By the end of the course, students will be able to connect strategic management theory with real-world practice and communicate their analyses effectively through written case studies.

[3] Class Delivery Method

Blended Learning Class

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Hill, Charles W. & Schilling, Melissa A.	Publisher	South-Western Cengage Learning	Textbook	Strategic Management	Issued year	
(2)	Author	Grant, Robert M.	Publisher	Wiley	Textbook	Contemporary Strategy Analysis: Concepts, Techniques, applications	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction & What is Strategy?
Second week	External Environment Analysis
Third week	Internal Analysis & Resources
Fourth week	Business–Level Strategy
Fifth week	Corporate–Level Strategy
Sixth week	Global Strategy
Seventh week	Innovation and Strategic Change
Eighth week	Midterm
Ninth week	Introduction to Case Writing
Tenth week	Writing the Company Background
Eleventh week	Writing Industry Background
Twelfth week	Developing Strategic Analysis
Thirteenth week	Writing Recommendation (I)
Fourteenth week	Writing Recommendation (II)
Fifteenth week	Final Case Paper
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	People Analytics		Course Number	0012421001		
Major / School Year	Division of Business Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 황태진	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-202:목(7-8A),금(5B-6)]			
Office hours	Wed/Thurs/Friday 9am-10am		Medium of Instruction	EN		

[1] Outline / Purpose

This course is an AI-transformation (AX) convergence course that examines how to make core human resource management decisions—including recruitment, performance management, talent development, organizational culture, and turnover management—scientifically, using AI and data analytics. Moving beyond conventional HR practices centered on experience and intuition, it explores how to understand people and improve organizational performance on the basis of data. In particular, by integrating generative AI with HR analytics, the course develops the competencies needed to support strategic HR decision-making, such as securing future talent, diagnosing organizational conditions, predicting turnover, and developing talent.

[2] Course Learning Outcomes

1. Understand the concept and importance of Data-Driven HRM.
2. Analyze organizational and talent-related problems using HR data.
3. Support HR decision-making using generative AI and HR analytics.
4. Address HR issues—such as recruitment, performance management, turnover management, and organizational culture—through data-driven approaches.
5. Develop the strategic HR competencies and ethical HR management skills required in the age of AI.

[3] Class Delivery Method

I will first provide lectures on the basic concepts of (a) Human Resource Management and (b) statistical analysis. I will teach how to analyze and visualize HR data with R. Then, students will be tasked to practice coding with their computers.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	0 %	0 %	40 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Khan & Miller	Publisher	Kogan Page	Textbook	Introduction to People Analytics	Issued year	
(2)	Author	정동일, 문영주, 이다인, 송승민, 오소록, 공민정, 김민서	Publisher	박영사	Textbook	데이터로 이해하는 HR 실무	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

We do not have a text book for this class. I will provide slide decks and codes.

[6] Weekly lesson plans

First week	People Analytics and HR Innovation in the Age of AI
Second week	Understanding HR Data and Data Quality
Third week	Basic Statistics and Data-Driven Decision-Making
Fourth week	Designing HR Metrics (KPIs) and Measuring Performance
Fifth week	Recruitment Analytics and Talent Acquisition Strategy
Sixth week	Performance Management and Talent Evaluation Analytics
Seventh week	Turnover Analysis and Talent Retention Strategy
Eighth week	Midterm Project Presentations
Ninth week	Generative AI and HR Analytics
Tenth week	Organizational Culture and Employee Experience Analytics
Eleventh week	Diversity and Inclusion Analytics
Twelfth week	Talent Development and Leadership Analytics
Thirteenth week	AI Ethics and Fair HR Decision-Making
Fourteenth week	Team Project Development and Consulting
Fifteenth week	Final Presentations and Sharing AI-Based HR Innovation Cases
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	People Analytics		Course Number	0012421002		
Major / School Year	Division of Business Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 황대진	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-202:목(8B-9),금(7-8A)]			
Office hours	Wed/Thurs/Friday 9am-10am		Medium of Instruction	EN		

[1] Outline / Purpose

This course is an AI-transformation (AX) convergence course that examines how to make core human resource management decisions—including recruitment, performance management, talent development, organizational culture, and turnover management—scientifically, using AI and data analytics. Moving beyond conventional HR practices centered on experience and intuition, it explores how to understand people and improve organizational performance on the basis of data. In particular, by integrating generative AI with HR analytics, the course develops the competencies needed to support strategic HR decision-making, such as securing future talent, diagnosing organizational conditions, predicting turnover, and developing talent.

[2] Course Learning Outcomes

1. Understand the concept and importance of Data-Driven HRM.
2. Analyze organizational and talent-related problems using HR data.
3. Support HR decision-making using generative AI and HR analytics.
4. Address HR issues—such as recruitment, performance management, turnover management, and organizational culture—through data-driven approaches.
5. Develop the strategic HR competencies and ethical HR management skills required in the age of AI.

[3] Class Delivery Method

I will provide lectures on the basic concepts of Human Resource Management. Then, I will teach how to analyze and visualize HR data in R. Students will be tasked to practice how to code and analyze data with their computers.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	0 %	0 %	40 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	People Analytics and HR Innovation in the Age of AI
Second week	Understanding HR Data and Data Quality
Third week	Basic Statistics and Data-Driven Decision-Making
Fourth week	Designing HR Metrics (KPIs) and Measuring Performance
Fifth week	Recruitment Analytics and Talent Acquisition Strategy
Sixth week	Performance Management and Talent Evaluation Analytics
Seventh week	Turnover Analysis and Talent Retention Strategy
Eighth week	Midterm Project Presentations
Ninth week	Generative AI and HR Analytics
Tenth week	Organizational Culture and Employee Experience Analytics
Eleventh week	Diversity and Inclusion Analytics
Twelfth week	Talent Development and Leadership Analytics
Thirteenth week	AI Ethics and Fair HR Decision-Making
Fourteenth week	Team Project Development and Consulting
Fifteenth week	Final Presentations and Sharing AI-Based HR Innovation Cases
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Tourism Analysis		Course Number	0012422001		
Major / School Year	Division of Business Administration	/ 4	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김경미	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-202:월(2B-3),수(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Hospitality and tourism students should be oriented toward various approaches to tourism analysis to develop a comprehensive understanding of the field. This course aims to go beyond introductory tourism concepts, offering in-depth analysis and discussion on selected tourism research topics. By engaging with advanced methodologies and critical perspectives, students will gain a solid foundation for analyzing and addressing complex issues in tourism.

The goal of this course is to familiarize students with various aspects of tourism, including spatial patterns of leisure travel, travel and tourism flow models, demand – supply interaction, impacts of tourism, attractiveness of destinations, assessment of tourism potential, analysis of tourism supply resources, and tourist market analysis. These topics are essential for both the scholarly study and applied management and planning of tourism. Additionally, students are expected to have or develop skills in using software packages for data analysis.

[2] Course Learning Outcomes

Upon the conclusion of this course, the student will be able to:

1. Provide a conceptual overview of the research on travel and tourism;
2. Explain how various approaches (theories) of space/place, origin/destination relate to tourism;
3. Describe the diversity of tourist destinations and their varying powers of attraction;
4. Comprehend the relationships between destination choices and the demographic/psychographic profiles of tourists;
5. Evaluate and assess the potential for tourism and its development;
6. Understand different types of tourist/trip generation models and the use of tourism indexes;
7. Monitor tourism trends and changes overtime.

[3] Class Delivery Method

The course will function as a student-centered seminar. The instructor will introduce the course and specific topics and present additional substantive material as appropriate. Readings will be provided on reserve, e-learning center or as handouts. Students are also encouraged to seek additional readings related to the topics under discussion.

Class attendance and participation are expected from all students, including full involvement in question-and-answer exchanges during class. This is a discussion format class, and simply being present is not enough. Students are responsible for the material and announcements made in class.

Students are expected to have read each chapter slides, article (handout or will be posted in e-learning), and be prepared to discuss them at the assigned time.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	30 %	20 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	None	Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Smith	Publisher	Longman	Textbook	Tourism Analysis	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Overview of a tourism research (CH1)
Third week	Defining and describing tourism research (CH2)
Fourth week	Collecting data on tourism (CH3)
Fifth week	Understanding the tourism (CH4)
Sixth week	Segmenting the tourist market (CH5)
Seventh week	class work
Eighth week	Mid Term Monday: Oct 19, 7-8 p.m. at Building # 29 and room # 103
Ninth week	Forecasting tourism (CH6)
Tenth week	Selecting a site for business development (CH7)
Eleventh week	Defining the geographic structure of the industry (CH8)
Twelfth week	Describing tourism regions (CH9)
Thirteenth week	Shadow prices (presentation) (Ch10)
Fourteenth week	Presentation
Fifteenth week	Final exam Monday Dec 7, 7-8 p.m. 29호관 103호
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Tourism Analysis		Course Number	0012422002		
Major / School Year	Division of Business Administration	/ 4	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 김경미	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[14-202:월(5B-6),수(5B-6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Hospitality and tourism students should be oriented toward various approaches to tourism analysis to develop a comprehensive understanding of the field. This course aims to go beyond introductory tourism concepts, offering in-depth analysis and discussion on selected tourism research topics. By engaging with advanced methodologies and critical perspectives, students will gain a solid foundation for analyzing and addressing complex issues in tourism.

The goal of this course is to familiarize students with various aspects of tourism, including spatial patterns of leisure travel, travel and tourism flow models, demand – supply interaction, impacts of tourism, attractiveness of destinations, assessment of tourism potential, analysis of tourism supply resources, and tourist market analysis. These topics are essential for both the scholarly study and applied management and planning of tourism. Additionally, students are expected to have or develop skills in using software packages for data analysis.

[2] Course Learning Outcomes

Upon the conclusion of this course, the student will be able to:

1. Provide a conceptual overview of the research on travel and tourism;
2. Explain how various approaches (theories) of space/place, origin/destination relate to tourism;
3. Describe the diversity of tourist destinations and their varying powers of attraction;
4. Comprehend the relationships between destination choices and the demographic/psychographic profiles of tourists;
5. Evaluate and assess the potential for tourism and its development;
6. Understand different types of tourist/trip generation models and the use of tourism indexes;
7. Monitor tourism trends and changes overtime.

[3] Class Delivery Method

The course will function as a student-centered seminar. The instructor will introduce the course and specific topics and present additional substantive material as appropriate. Readings will be provided on reserve, e-learning center or as handouts. Students are also encouraged to seek additional readings related to the topics under discussion.

Class attendance and participation are expected from all students, including full involvement in question-and-answer exchanges during class. This is a discussion format class, and simply being present is not enough. Students are responsible for the material and announcements made in class.

Students are expected to have read each chapter slides, article (handout or will be posted in e-learning), and be prepared to discuss them at the assigned time.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	30 %	20 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	none	Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Smith	Publisher	Longman	Textbook	Tourism Analysis	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Overview of a tourism research (CH1)
Third week	Defining and describing tourism research (CH2)
Fourth week	Collecting data on tourism (CH3)
Fifth week	Understanding the tourism (CH4)
Sixth week	Segmenting the tourist market (CH5)
Seventh week	Class work
Eighth week	Mid Term Monday: Oct 20, 7-8 p.m. at Building # 29 and room # 103
Ninth week	Forecasting tourism (CH6)
Tenth week	Selecting a site for business development (CH7)
Eleventh week	Defining the geographic structure of the industry (CH8)
Twelfth week	Describing tourism regions (CH9)
Thirteenth week	Shadow prices (presentation) (Ch10)
Fourteenth week	Presentation
Fifteenth week	Final exam Monday Dec 8, 7-8 p.m. 29호관 103호
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Economies	Course Number	JA06047006
Major / School Year	Dept. of Tax & Accounting / 1	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class / lecture room	[ZZ-200:월(1-2A),수(1-2A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course is an instruction to the basic concepts of Economics, so this course will begin by exploring the fundamental economic question. We live in a world with scarce resources, including oil, money, time, energy and goods and services. However, we have unlimited wants. Therefore, we consider how these scarce resources are allocated and in doing so, we will explore the importance of choice. The course will then develop many fundamental concepts, ideas and models that economists use to study all the questions that result from this fundamental economic problem.

[2] Course Learning Outcomes

By the end of this class, students should be able to:

1. Improve economic literacy.
2. Improve critical thinking and problem solving skills by using economic models to explain and predict economic relationships.
3. Improve students abilities to evaluate views and opinions related to economics and develop their own perspectives based on sound reasoning.
4. Improve students understanding of economic issues and events.

[3] Class Delivery Method

Please click Korean Version. Korean Version is written in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	5 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gregory Mankiw	Publisher	Cengage	Textbook	Principles of Economics by Gregory Mankiw: 8th Edition softcopy	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Ten Principles of Economics (Chapter 1-1)
Third week	Ten Principles of Economics (Chapter 1-2)
Fourth week	Supply and demand (4-1)
Fifth week	Supply and demand (4-2)
Sixth week	Elasticity (Chapter 5) and its application Class work
Seventh week	Government policy (chapter 6)
Eighth week	Mid Term (Tuesday: Oct 20, 7-8 p.m. Place: TBA)
Ninth week	Consumers, producers, and the efficiency of markets (chapter 7-1)
Tenth week	Consumers, producers, and the efficiency of markets (chapter 7-2)
Eleventh week	International trade chapter 3
Twelfth week	International trade (Chapter 9-1)
Thirteenth week	International trade (Chapter 9-2)
Fourteenth week	Externality (Chapter 10)
Fifteenth week	Final Exam (Tuesday: Dec 8, 7-8 p.m. Place TBA)
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Contemporary Art Seminar2Post Modernism	Course Number	0010974001
Major / School Year	Major of Painting / 2	completion division / Grade evaluation	/
Department/Professor	School of Fine Arts / 권순학	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[16-106:월(5)(6)(7)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This seminar/art practice class aims for students to actively participate in discussions and presentations of discourses in Contemporary art. This develops critical views on the social role of contemporary artists and cultural studies.

[2] Course Learning Outcomes

Students would strengthen their critical ability as an artist, curators and cultural-related careers by understanding the historical context and trends in the field of art.

[3] Class Delivery Method

Students would prepare presentations and experience contemporary art discourse through discussion and application to their practice. Also, this class would aim for practical education of theory and art practice, which could be utilized in the real world.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	윌 골드스미스	Publisher	알에이치코리아	Textbook	발칙한 현대미술사	Issued year	2012
(2)	Author	메리 앤 스타니스제프스키	Publisher	현실문화	Textbook	이것은 미술이 아니다	Issued year	2011
(3)	Author	조주연	Publisher	글항아리	Textbook	현대미술 강의 : 순수 미술의 탄생과 죽음	Issued year	2017

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the class
Second week	Introduction to Avant-garde/Post-modernism
Third week	Seminar: Avant-garde 1 European avant-garde before the war
Fourth week	Art practice
Fifth week	Crit
Sixth week	Seminar: Avant-garde 2 – American avant-garde after the war
Seventh week	Art practice
Eighth week	Crit
Ninth week	Seminar: Postmodernism Part 1 Post Minimalism
Tenth week	Art practice
Eleventh week	Crit
Twelfth week	Seminar: Post Modernism Part 2 – Post Pop
Thirteenth week	Art practice
Fourteenth week	Crit
Fifteenth week	Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	presentation	submission date	2022-09-19 Mon
	purpose	seminar		
	procedure & notice	After selecting an artist who fits the context of the class, research and makes a presentation		
	references			
The second assignment	assignment	Art practice	submission date	2023-12-11 Mon
	purpose	현대미술의 흐름에 부합하는 작품의 형식과 내용을 실험한다		
	procedure & notice	The keywords appearing in each seminar are interpreted in a modern way to visualize the idea of adapting to contemporary art.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Mixed Media	Course Number	0010977001
Major / School Year	Major of Painting / 3	completion division / Grade evaluation	/
Department/Professor	School of Fine Arts / 권순학	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number	A weekday / class / lecture room [16-107:화(1)(2)(3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This class aims to cultivate the ability to interpret art and culture while and utilise this knowledge to appreciate and provide a creative and critical perspective on contemporary cultural and artistic aspects within modern society. Additionally, it aims to bridge the gap between the general public and contemporary art, approaching it through familiar mediums and narrowing the divide between high culture and everyday life.

[2] Course Learning Outcomes

This interdisciplinary art class explores the fusion of various art forms, aiming to go beyond the limits of creativity and expression by integrating painting (the primary subject) with other mediums. The photography and media class allows students to acquire general knowledge about photography and videography, enabling them to independently capture photos relevant to their daily lives or significant subjects. Moreover, it encourages students to experiment with the expansiveness of photography based on imaginative thinking and blend it with other media, attempting to create new art forms.

[3] Class Delivery Method

The course will include autonomous discussions, individual and group practices, and exhibition observations. In the early part of the semester, the class will explore various expressive visual arts mediums, including painting, aiming to internalize and embody them. The course will be conducted both online and offline simultaneously.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	마이클 월스	Publisher	마로니에북스	Textbook	한 권으로 읽는 현대미술	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션(강의방향 및 수업진행방식 등 소개)
Second week	작품 구상 현대미술에서 다양한 매체의 종류와 방법론
Third week	작품 구상 및 계획
Fourth week	사진 / 영상 기초
Fifth week	매체연구작품 및 작가탐구 1
Sixth week	매체연구작품 및 작가탐구 1
Seventh week	중간평가
Eighth week	crit
Ninth week	매체연구작품 및 작가탐구 3
Tenth week	매체연구작품 및 작가탐구 4
Eleventh week	개별 작업 진행 발표
Twelfth week	개별 작업 진행 발표
Thirteenth week	개별 작업 진행 발표
Fourteenth week	최종 결과물 평가
Fifteenth week	최종 결과물 평가
Sixteenth week	

[7] Assignments

The first assignment	assignment	중간 평가	submission date	2023-10-17 Tue
	purpose			
	procedure & notice	창의적인 구상과 계획에 주안점을 두어 평가		
	references			
The second assignment	assignment	최종평가	submission date	2023-12-12 Tue
	purpose			
	procedure & notice	복합적인 완성도를 평가		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Studio08	Course Number	0010985001
Major / School Year	Major of Painting / 4	completion division / Grade evaluation	/
Department/Professor	School of Fine Arts / 권순학	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[16-108:수(5)(6)(7)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

본 수업은 사진과 영상 매체를 중심으로 현대미술의 다양한 담론들을 섭렵하며 졸업작품 전시를 준비하는 수업이다. 이를 통해 예술가의 사회적 역할과 문화현상에 대해 비평적 시각을 함양시킨다.

[2] Course Learning Outcomes

4학년 수업인 본 수업은 졸업작품 제작에 주안점을 두며 본 수업을 통해 실제 미술계 현장의 분위기와 트렌드를 파악하여 작가와 큐레이터로서의 역량을 강화하고자 한다. 현대미술속에 나타나는 다양한 경향을 체험하여 그 다양성 속에 학생 각각의 방향성을 고찰해 본다.

[3] Class Delivery Method

개별작품지도

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	월 공퍼츠	Publisher	알에이치코리아	Textbook	발칙한 현대미술사	Issued year	2012
(2)	Author	메리 앤 스타니스제프스키	Publisher	현실문화	Textbook	이것은 미술이 아니다	Issued year	2011
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	수업 방향과 주요 교재 및 참고자료 소개
Second week	졸업작품 구상 및 계획 토론
Third week	졸업작품 구상 및 계획 토론
Fourth week	개별 작업 진행
Fifth week	개별 작업 진행
Sixth week	개별 작업 진행
Seventh week	crit
Eighth week	crit
Ninth week	작가 연구 세미나
Tenth week	작가 연구 세미나
Eleventh week	personal tutorial
Twelfth week	personal tutorial
Thirteenth week	졸업작품 studio 수업
Fourteenth week	졸업작품 studio 수업
Fifteenth week	최종 결과물 평가
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Design Culture and History	Course Number	0005996001
Major / School Year	Division of Design / 1	completion division / Grade evaluation	/
Department/Professor	Division of Design / 김시연	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[16-109: 화(3)(4), 목(6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This is an english theory class on the history of design.

The class aims to look through the flow of design culture to understand the current state of design.

[2] Course Learning Outcomes

To understand design terms according to its period and culture frame.

[3] Class Delivery Method

lecture, presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Philip B. Meggs	Publisher		Textbook	History of graphic design	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	락시미 바스카란	Publisher		Textbook	한 권으로 읽는 20세기 디자인	Issued year	
(2)	Author	최경원	Publisher		Textbook	20세기 위대한 디자이너 10인의 삶과 열정	Issued year	
(3)	Author	김상규, 최경원, 강현주, 김진경	Publisher		Textbook	디자이너 열전	Issued year	
(4)	Author	헬렌 암스트롱	Publisher		Textbook	그래픽 디자인 이론	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Research Presentation / Beginning of graphic design
Third week	Research Presentation / Arts and Crafts movement, Art Nouveau
Fourth week	Thanksgiving Day / Industrial revolution and visual communication
Fifth week	Research Presentation / Dadaism, Constructivism
Sixth week	Research Presentation / Bauhaus
Seventh week	Research Presentation / Mid-Term Exam preparation study
Eighth week	Mid-term Examination / Swiss International Style
Ninth week	Entrance Examination Day (No Class) / Graphic design in the USA
Tenth week	Research Presentation / Postmodern design
Eleventh week	Research Presentation / Identity program and visual system
Twelfth week	Research Presentation / Contemporary graphic design and digital present
Thirteenth week	Research Presentation / Research Presentation
Fourteenth week	Research Presentation / Final Exam preparation study
Fifteenth week	Final Examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	design research	submission date	
	purpose			
	procedure & notice	design research presentation		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Design Culture and History	Course Number	0005996002
Major / School Year	Division of Design / 1	completion division / Grade evaluation	/
Department/Professor	Division of Design / 김시연	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[16-109: 화(5)(6), 목(5)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This is an english theory class on the history of design.

The class aims to look through the flow of design culture to understand the current state of design.

[2] Course Learning Outcomes

To understand design terms according to its period and culture frame.

[3] Class Delivery Method

lecture, presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Philip B. Meggs	Publisher		Textbook	History of graphic design	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	락시미 바스카란	Publisher		Textbook	한 권으로 읽는 20세기 디자인	Issued year	
(2)	Author	최경원	Publisher		Textbook	20세기 위대한 디자이너 10인의 삶과 열정	Issued year	
(3)	Author	김상규, 최경원, 강현주, 김진경	Publisher		Textbook	디자이너 열전	Issued year	
(4)	Author	헬렌 암스트롱	Publisher		Textbook	그래픽 디자인 이론	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Research Presentation / Beginning of graphic design
Third week	Research Presentation / Arts and Crafts movement, Art Nouveau
Fourth week	Thanksgiving Day / Industrial revolution and visual communication
Fifth week	Research Presentation / Dadaism, Constructivism
Sixth week	Research Presentation / Bauhaus
Seventh week	Research Presentation / Mid-Term Exam preparation study
Eighth week	Mid-term Examination / Swiss International Style
Ninth week	Entrance Examination Day (No Class) / Graphic design in the USA
Tenth week	Research Presentation / Postmodern design
Eleventh week	Research Presentation / Identity program and visual system
Twelfth week	Research Presentation / Contemporary graphic design and digital present
Thirteenth week	Research Presentation / Research Presentation
Fourteenth week	Research Presentation / Final Exam preparation study
Fifteenth week	Final Examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	design research	submission date	
	purpose			
	procedure & notice	design research presentation		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Capstone Design	Course Number	0007332001
Major / School Year	Division of Design / 3	completion division / Grade evaluation	/
Department/Professor	Division of Design /	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[16-213:수(2)(3)(4)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This capstone design course provides students with the opportunity to apply the theoretical knowledge and practical skills they have learned and developed to real-world problems or projects.

[2] Course Learning Outcomes

Through individual projects, the course aims to cultivate students' practical capabilities as designers.

[3] Class Delivery Method

The course is conducted with a focus on practical work, including discussions and presentations based on individual assignments.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	10 %	0 %	70 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	90 %	0 %	5 %	0 %	0 %	0 %

[4] Grading Policies

- Qualitative assessment of class participation attitude
- Qualitative assessment of assignment results
- Qualitative assessment of midterm/final exams (assignment presentations)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	도널드 노먼	Publisher	유크스리뷰	Textbook	도널드 노먼의 인간 중심 디자인	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	김병환	Publisher	가디언	Textbook	지구가 허락할 때까지 지속 생존을 위한 비즈니스 액티비스트 선언 어스테크, 지구가 허락할 때까지	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Capstone Design ● Goals: Provide an overview of the course. ● Activities: Discuss what design is. / Introduce the course overview and 15-week curriculum.
Second week	Selection Based on the Design Thinking Process ● Goal: Share social issues or everyday friction and discuss target problem areas to address ● Activities: Brainstorming session (sharing social issues or everyday friction, defining problems, and setting problem priorities) ● Deliverable: Discussion and alignment on the project topic area
Third week	Selection for Assignment 1 (or Assignment 1 Topic Selection) ● Goals: Conduct background research to select a project topic ● Activities: Literature review, market research, and problem definition ● Deliverable: Research summary and justification for topic selection
Fourth week	Project Planning and Management ● Goal: Understand the industrial design development process and create a project plan with key milestones and deadlines ● Activities: Roles and Responsibilities (R&R) allocation, schedule alignment based on process ● Deliverables: Project plan and timeline (or schedule)
Fifth week	Phase 1 Design Development ● Goal: Initiate the design process and independently develop initial ideas ● Activities: Idea development (or Ideation) ● Deliverables: Idea sketches + Reference images
Sixth week	Phase 2 Design Development ● Goal: Refine and advance design ideas based on feedback ● Activities: Idea sketches to refine design concepts (3D development if necessary) ● Deliverables: Detailed sketches illustrating refined design concepts (multiple views, key features, and modifications based on feedback with annotations) + Image board
Seventh week	Phase 3 Design Development ● Goal: Further develop and refine the design based on feedback ● Activities: Update form and styling, and define the presentation direction (rendering views and scenario scenes) ● Deliverables: Initial 3D renderings
Eighth week	Midterm Presentation (Midterm Exam) ● Goals: Present current progress and receive feedback. ● Activities: Midterm presentation session. ● Outputs: Midterm presentation slides and progress report (including all idea sketches and feedback, showing how feedback influenced design changes).
Ninth week	Item Selection within Designated Topics ● Goal: Select one item from the designated topic options and propose a solution ● Activities: Design development item selection and brainstorming ● Deliverables: Brainstorming documentation and item selection
Tenth week	Phase 1 Design Development ● Goal: Define design direction and create idea sketches based on the established direction ● Activities: Brainstorming and idea sketching ● Deliverables: Idea sketches and image board
Eleventh week	Phase 2 Design Development ● Goal: Develop the design based on the established direction, focusing on detailed aspects and proposing functional and aesthetic directions ● Activities: Detailed design work (including 3D modeling and rendering; use of generative AI tools recommended) ● Deliverables: Detailed design (2D or 3D renderings and concept sketches) and scenario sketches
Twelfth week	Phase 3 Design Development ● Goal: Develop the design based on the established direction, focusing on detailed aspects and finalizing functionality ● Activities: Detailed design work (including 3D modeling and rendering; use of generative AI tools recommended) ● Deliverables: Detailed design (2D or 3D renderings and concept sketches) and scenario sketches
Thirteenth week	Phase 4 Design Development ● Goal: Advance the design through 3D modeling and rendering ● Activities: Review progress and provide feedback through individual sessions ● Deliverables: Updated design outcomes and progress report
Fourteenth week	Final Design Preparation ● Goals: Upgrade and finalize the design concept. ● Activities: Individual sessions to discuss progress. ● Outputs: Ongoing design results.
Fifteenth week	Final Presentation (Final Exam) ● Goals: Present the final project to the audience (classmates) for evaluation. ● Activities: Final presentation session. ● Outputs: Final presentation slides and evaluation sheets.
Sixteenth week	

[7] Assignments

The first assignment	assignment	Background research and idea sketches for selecting the team project topic	submission date	
	purpose	Collecting rational evidence and developing ideas for design development items		
	procedure & notice	Presentation of research results and idea development outcomes through PPT slides (text & images)		

	references			
The second assignment	assignment	Presentation of project outcomes	submission date	
	purpose	Evaluation of individual design development achievements based on the theories and practices learned throughout the semester		
	procedure & notice	Effective presentation of the development background, research results, and final design outcomes		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Functional Performance		Course Number	0011091001	
Major / School Year	Division of Health and Kinesiology	/ 1	completion division /Grade evaluation	/	
Department/Professor	Division of Health and Kinesiology	/ 김남웅	Grades/Lecture/ Practice	1	/ 0 / 2
Phone Number		A weekday / class / lecture room	[16-402:수(1)(2)]		
Office hours			Medium of Instruction	ES	

[1] Outline / Purpose

스포츠 및 임상 현장에 필요한 운동기능검사(Functional test)에 대해 배운다.

[2] Course Learning Outcomes

운동기능을 평가할 수 있는 운동기능검사에 대해 배우고 운동기능을 테스트 하는 방법을 배운다.

[3] Class Delivery Method

수업, 실습, 발표 및 과제

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	30 %	0 %	0 %	0 %	30 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Michael P. Reiman and Robert C. Manske	Publisher	Human Kinetics	Textbook	Functional Testing in Human Performance	Issued year	2009
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Basics of Functional Testing
Second week	Arthropometric Assessment
Third week	Muscle Length Assessment
Fourth week	Muscle Length Assessment
Fifth week	Muscle Length Assessment
Sixth week	Fundamental Movement Testing
Seventh week	Fundamental Movement Testing
Eighth week	Midterm
Ninth week	Balance Testing
Tenth week	Balance Testing
Eleventh week	Strength and Power Testing
Twelfth week	Strength and Power Testing
Thirteenth week	Trunk Testing Upper Extremity Testing
Fourteenth week	Lower Extremity Testing
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Functional Performance		Course Number	0011091002	
Major / School Year	Division of Health and Kinesiology	/ 1	completion division /Grade evaluation	/	
Department/Professor	Division of Health and Kinesiology	/ 김남웅	Grades/Lecture/ Practice	1	/ 0 / 2
Phone Number		A weekday / class / lecture room	[16-402:수(3)(4)]		
Office hours			Medium of Instruction	ES	

[1] Outline / Purpose

스포츠 및 임상 현장에 필요한 운동기능검사(Functional test)에 대해 배운다.

[2] Course Learning Outcomes

운동기능을 평가할 수 있는 운동기능검사에 대해 배우고 운동기능을 테스트 하는 방법을 배운다.

[3] Class Delivery Method

수업, 실습, 발표 및 과제

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	30 %	0 %	0 %	0 %	30 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Michael P. Reiman and Robert C. Manske	Publisher	Human Kinetics	Textbook	Functional Testing in Human Performance	Issued year	2009
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Basics of Functional Testing
Second week	Arthropometric Assessment
Third week	Muscle Length Assessment
Fourth week	Muscle Length Assessment
Fifth week	Muscle Length Assessment
Sixth week	Fundamental Movement Testing
Seventh week	Fundamental Movement Testing
Eighth week	Midterm
Ninth week	Balance Testing
Tenth week	Balance Testing
Eleventh week	Strength and Power Testing
Twelfth week	Strength and Power Testing
Thirteenth week	Trunk Testing Upper Extremity Testing
Fourteenth week	Lower Extremity Testing
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Orthopedic Evaluation and Assessment of the Upper Extremity		Course Number	0011092001	
Major / School Year	Division of Health and Kinesiology	/ 3	completion division /Grade evaluation	/	
Department/Professor	Division of Health and Kinesiology	/ 김남웅	Grades/Lecture/ Practice	2	/ 2 / 0
Phone Number		A weekday / class / lecture room	[16-402:수(6)(7)]		
Office hours			Medium of Instruction	ES	

[1] Outline / Purpose

The primary purpose of this course is to provide the student with knowledge and skill in the area of advanced athletic injury assessment to the upper extremity.

[2] Course Learning Outcomes

The student will be exposed to current methodology in the field of orthopedic physical assessment, including: observation of posture and external landmarks, palpation of anatomic structures, manual muscle testing, range-of-motion assessment (both passive and active), neurologic screening of myotomes, dermatomes, and reflexes, special tests, and immediate care of specific injuries and illnesses.

[3] Class Delivery Method

Lecture with powerpoint presentations, group discussion and brainstorming, practical demonstrations, and skills practice.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exam, attendance, practical exam

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Starkey, C, Brown, SD, & Ryan, J	Publisher		Textbook	Examination of Orthopedic and Athletic Injuries	Issued year	2010
(2)	Author	Kendall F.P., McCreary E., Provance P.G.	Publisher		Textbook	Muscles Testing and Function, with Posture and Pain, 5th edition	Issued year	2005
(3)	Author	Magee, DJ	Publisher		Textbook	Orthopedic Physical Assessment, 5th edition	Issued year	2008

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Injury Pathology
Second week	Introduction to Injury Evaluation
Third week	Shoulder
Fourth week	Shoulder
Fifth week	Elbow
Sixth week	Elbow
Seventh week	Head
Eighth week	Midterm
Ninth week	Cervical
Tenth week	Cervical
Eleventh week	Thorax and Abdomen
Twelfth week	Thorax and Abdomen
Thirteenth week	Wrist, Hand, Finger
Fourteenth week	Wrist, Hand, Finger
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Orthopedic Evaluation and Assessment of the Upper Extremity		Course Number	0011092002	
Major / School Year	Division of Health and Kinesiology	/ 3	completion division /Grade evaluation	/	
Department/Professor	Division of Health and Kinesiology	/ 김남웅	Grades/Lecture/ Practice	2	/ 2 / 0
Phone Number	A weekday / class / lecture room		[16-402:수(8)(9)]		
Office hours			Medium of Instruction	ES	

[1] Outline / Purpose

The primary purpose of this course is to provide the student with knowledge and skill in the area of advanced athletic injury assessment to the upper extremity.

[2] Course Learning Outcomes

The student will be exposed to current methodology in the field of orthopedic physical assessment, including: observation of posture and external landmarks, palpation of anatomic structures, manual muscle testing, range-of-motion assessment (both passive and active), neurologic screening of myotomes, dermatomes, and reflexes, special tests, and immediate care of specific injuries and illnesses.

[3] Class Delivery Method

Lecture with powerpoint presentations, group discussion and brainstorming, practical demonstrations, and skills practice.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exam, attendance, practical exam

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Starkey, C, Brown, SD, & Ryan, J	Publisher		Textbook	Examination of Orthopedic and Athletic Injuries	Issued year	2010
(2)	Author	Kendall F.P., McCreary E., Provance P.G.	Publisher		Textbook	Muscles Testing and Function, with Posture and Pain, 5th edition	Issued year	2005
(3)	Author	Magee, DJ	Publisher		Textbook	Orthopedic Physical Assessment, 5th edition	Issued year	2008

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Injury Pathology
Second week	Introduction to Injury Evaluation
Third week	Shoulder
Fourth week	Shoulder
Fifth week	Elbow
Sixth week	Elbow
Seventh week	Head
Eighth week	Midterm
Ninth week	Cervical
Tenth week	Cervical
Eleventh week	Thorax and Abdomen
Twelfth week	Thorax and Abdomen
Thirteenth week	Wrist, Hand, Finger
Fourteenth week	Wrist, Hand, Finger
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Scuba Diving		Course Number	0011970001	
Major / School Year	Division of Health and Kinesiology	/ 3	completion division /Grade evaluation	/	
Department/Professor	Division of Health and Kinesiology	/	Grades/Lecture/ Practice	1	/ 0 / 2
Phone Number	A weekday / class / lecture room		[16-302A:수(0~1)(0~2)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

This course aims to help students acquire basic scuba diving skills and safety procedures through theoretical and practical training. It also seeks to enhance understanding of marine sports and provide hands-on experience with the value of scuba diving as a recreational activity. (Scuba diving certification included)
[Only students enrolled in this major are eligible to register for this course.]

-Note: As this course involves specialized sports practical training, we kindly request that only students in sports-related majors enroll to ensure safe and efficient class operations during the overseas program.

*본 교과목은 스쿠버다이빙의 기본 이론 및 실습을 통해 수중 활동의 기초기술과 안전수칙을 습득하며, 해양 스포츠에 대한 이해를 높이고 레크리에이션 활동으로서의 스쿠버다이빙의 가치를 체험하는 데 목적이 있다. (스쿠버다이빙 자격증 취득)

-Note: 본 강의는 전문적인 스포츠 실기 훈련을 포함하고 있으므로, 해외 일정 동안의 안전하고 효율적인 수업 진행을 위해 스포츠 관련 전공 학생들이 수강해 주시기를 부탁드립니다.

[2] Course Learning Outcomes

This course aims to systematically teach the fundamental theories and techniques of scuba diving, enhance students' understanding of water safety and emergency response, and improve their overall comprehension of marine sports through open-water training and certification.

*본 교과목은 스쿠버다이빙의 기본 이론과 기술을 체계적으로 학습하고, 수중 활동의 안전수칙과 응급대처능력을 익혀 실제 해양 실습을 통해 자격증 취득 및 해양 스포츠에 대한 이해를 증진하는 것을 목표로 한다.

[3] Class Delivery Method

[스쿠버다이빙 교육 및 실습 일정 안내: 필리핀, 세부]

■ 1일차 (목): 오후 8시 이후 인천공항 출국(세부) ■ 2일차 (금): 오픈워터 이론 및 제한수역 교육 ■ 3일차 (토): 오픈워터 개방수역 실습 및 평가 ■ 4일차 (일): 자유 일정 (편 다이빙, 호핑투어 등) / 오후 9시 리조트 집합 후 공항 이동 ■ 5일차 (월): 새벽 5~6시경 인천공항 도착, 일정 종료

[※ 총 경비(숙식, 자격증 발급비 포함): 한화 약 45~55만 원 (약360불~380불) ※ 개인 부담: 항공권, 자유 시간 중 개인 활동 비용]

*일정 및 비용은 현지 상황에 따라 변경될 수 있습니다.

[Scuba Diving Training & Practice Schedule: Philippines, Cebu]

■ Day 1 (Thu): Depart from Incheon Airport after 8:00 PM(Cebu) ■ Day 2 (Fri): Open Water Theory and Confined Water Training

■ Day 3 (Sat): Open Water Dives and Evaluation ■ Day 4 (Sun): Free Schedule (Fun Diving, Island Hopping, etc.) / Gather at the resort by 9:00 PM and transfer to the airport ■ Day 5 (Mon): Arrive at Incheon Airport around 5-6 AM, end of trip

[※ Total Cost: \$360~380 (approx. KRW 450,000~550,000, includes accommodation and certification fee)]

[※ Not Included: Airfare and personal expenses during free time]

Note: Schedule and costs are subject to change depending on local conditions.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation 오리엔테이션
Second week	Scuba Diving Theory #1 다이빙 이론#1
Third week	Scuba Diving Theory #2 다이빙 이론#2
Fourth week	Scuba Diving Theory #3 다이빙 이론#3
Fifth week	Confined Water Training #1 실습#1
Sixth week	Confined Water Training #2 실습#2
Seventh week	Confined Water Training #3 실습#3
Eighth week	Scuba Diving Practical Evaluation 실습평가
Ninth week	Open Water Training Dive #1 해양실습#1
Tenth week	Open Water Training Dive #2 해양실습#2
Eleventh week	Open Water Training Dive #3 해양실습#3
Twelfth week	Open Water Training Dive #4 해양실습#4
Thirteenth week	Open Water Training Dive #5 해양실습#5
Fourteenth week	Final Practical Assessment 최종 실습평가
Fifteenth week	Completion and Feedback (Certification Awarded) 수료 및 피드백 (자격증 취득)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			

	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Clinical Biomechanics		Course Number	0011972001		
Major / School Year	Division of Health and Kinesiology	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Health and Kinesiology	/ 김남웅	Grades/Lecture/ Practice	2	/ 2	/ 0
Phone Number		A weekday / class / lecture room	[16-302A:월(4)(5)]			
Office hours			Medium of Instruction	ES		

[1] Outline / Purpose

Clinical Biomechanics focuses on applying biomechanical principles to human movement in a rehabilitation context. Students study how forces and motions affect the human musculoskeletal system and learn to evaluate normal and abnormal movement (gait, posture, joint function) for clinical decision-making. Emphasis is on understanding joint kinematics/kinetics and muscle function as a foundation for rehabilitation practice.

[2] Course Learning Outcomes

By the end of the course, students will be able to: (1) Explain fundamental biomechanics concepts (forces, levers, stress-strain) in the context of human anatomy; (2) Describe normal joint movement (osteokinematics and arthrokinematics) for major joints of the spine and extremities; (3) Analyze gait and posture, distinguishing normal vs. pathological gait patterns; (4) Identify biomechanical causes of common musculoskeletal impairments and propose evidence-based interventions.

[3] Class Delivery Method

Lectures and practices

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	0 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Donald A. Neumann	Publisher	Elsevier	Textbook	Neumann's Kinesiology of the Musculoskeletal System	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Joint Structure & Function
Third week	Tissue Mechanics and Muscle Function
Fourth week	Biomechanics of the Spine (Lumbar)
Fifth week	Biomechanics of the Hip
Sixth week	추석연휴(10/5~10/9)
Seventh week	Biomechanics of the Knee
Eighth week	Midterm
Ninth week	Biomechanics of the Shoulder Complex
Tenth week	Biomechanics of Elbow and Forearm
Eleventh week	Pathomechanics of Musculoskeletal Pain and Muscle Imbalance
Twelfth week	Fundamentals of Gait Analysis
Thirteenth week	Evaluation of Movement Patterns
Fourteenth week	Course Review and Exam Preparation
Fifteenth week	Final
Sixteenth week	Make-up Week (if needed)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Sports English 2		Course Number	0011976001			
Major / School Year	Division of Health and Kinesiology	/ 4	completion division /Grade evaluation	/			
Department/Professor	Division of Health and Kinesiology	/ 성호준	Grades/Lecture/ Practice	2	/	2	/ 0
Phone Number		A weekday / class / lecture room	[16-302A:월(6)(7)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

As globalization became essential and common for sport business, this course is designed to enhance student's understanding of spoken and written English in field of sports and business.

[2] Course Learning Outcomes

Through media platform, students will learn basics of English. Specifically, the course aims to teach vocabularies, expressions, and cultural background of various aspects of sports business related English.

[3] Class Delivery Method

The course will be taught mainly through weekly lectures.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Basics of English grammar I
Third week	Basics of English grammar II
Fourth week	English in sports business through media
Fifth week	English in sports business through media
Sixth week	English in sports business through media
Seventh week	English in sports business through media
Eighth week	Mid-term exam
Ninth week	English in sports business through media
Tenth week	English in sports business through media
Eleventh week	English in sports business through media
Twelfth week	English in sports business through media
Thirteenth week	English in sports business through media
Fourteenth week	English in sports business through media
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	American and British Culture		Course Number	0002914001		
Major / School Year	Dept. of English Language Education / 1		completion division / Grade evaluation	/		
Department/Professor	Dept. of English Language Education / 최유정		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[NC-209:화(2B-3),수(4-5A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course on British and American culture introduces students to key aspects of literary culture, including poems, novels, and films. Through this course, students will learn how literature and visual media reflect and shape the cultural, historical, and social values of the English-speaking world. Students will explore major themes such as identity, freedom, race, gender, and class through selected texts from Britain and the United States. By reading, discussing, and writing about these works in English, students will improve their critical thinking, cultural understanding, and language skills. This course is designed to help first-year students build a strong foundation for further studies in English literature analysis.

[2] Course Learning Outcomes

- 1) To develop an understanding of major themes and historical contexts in British and American literary culture.
- 2) To enhance students' ability to read, analyze, and discuss English-language literary texts and films.
- 3) To explore how literature and media reflect cultural values and social issues such as identity, gender, race, and class.
- 4) To build a foundation for future coursework in English literature, cultural studies, and critical analysis.

[3] Class Delivery Method

In the first half of the course, students will engage with Matt Haig's *The Midnight Library*, focusing on vocabulary, sentence structure, and group discussions centered on key themes such as identity, life values, mental health, and personal aspirations. In the second half, students will explore a diverse selection of poems and short fiction, supported by lectures and group discussions.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	30 %	30 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Matt Haig	Publisher		Textbook	The Midnight Library	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course introduction
Second week	Alfred Hitchcock, "Vertigo": Screening and Discussion
Third week	Matt Haig, The Midnight Library (p.1–23) "A Conversation About Rain" ~ "Antimatter" Matt Haig, The Midnight Library (p.24–41) "00:00:00" ~ "Every Life Begins Now"
Fourth week	Matt Haig, The Midnight Library (p. 42–63) "The Three Horseshoes" ~ "The Chessboard" Matt Haig, The Midnight Library (p.64–113) "The Only Way to Learn is to Live" ~ "The Tree That is Our Life"
Fifth week	Matt Haig, The Midnight Library (p.114–134) "System Error" ~ "Island" Matt Haig, The Midnight Library (p.135–156) "Permafrost" ~ "God and Other Librarians"
Sixth week	Matt Haig, The Midnight Library (p. 157–181) "Fame" ~ "The Podcast of Revelations" Matt Haig, The Midnight Library (p. 182–203) "Howl" ~ "Why Want Another Universe"
Seventh week	Matt Haig, The Midnight Library (p. 204–226) "Dinner with Dylan" ~ "A Pearl in the Shell" Matt Haig, The Midnight Library (p. 207–245) "The Game" ~ "Hammersmith"
Eighth week	Matt Haig, The Midnight Library (p.246–288) Midterm Essay
Ninth week	William Carlos Williams "This is Just to Say" Emily Dickinson "That Love is All There is," "March" Christina Rossetti, "A Birthday" Robert Burns, "A Red, Red Rose" Anne Morrow Lindbergh, "The Man and the Child"
Tenth week	A.E. Houseman "When I was One-And-Twenty" W. H. Auden "Funeral Blues" Sara Teasdale "Barter" Edna St. Vincent Millay "Pity Me Not"
Eleventh week	Mary Oliver, "Wild Geese" Louise Glück, "Snowdrops" William Wordsworth, "I Wandered Lonely as a Cloud" William Shakespeare, Sonnet 29
Twelfth week	James Joyce, "Evelyn"
Thirteenth week	News Article Search and Sharing
Fourteenth week	News Article Search and Sharing
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quizzes	submission date	
	purpose	There will be weekly quizzes to assess your preparation for the assigned readings.		
	procedure & notice			
	references			
The second assignment	assignment	Poetry Recording	submission date	
	purpose	recording your reading of the selected poem with focus on emotions, pronunciations, and rhythms.		
	procedure & notice			
	references			

The third assignment	assignment	Mideterm Essay	submission date	
	purpose	write a essay based on group discussions on The Midnight Library		
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Global Citizen English I	Course Number	0011985001
Major / School Year	Dept. of English Language Education / 1	completion division / Grade evaluation	/
Department/Professor	/ 매튜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[NC-209:수(1)(2)(3)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

This course is designed to introduce students to a broad range of contemporary issues and practical approaches related to teaching English as a second language.

A variety of learning materials will be used, including academic articles, case studies, videos, presentations, classroom demonstrations, and authentic teaching resources. Students are expected to critically engage with these materials by reflecting on different perspectives, participating actively in discussions, and sharing informed opinions during pair, group, and whole-class activities. The course aims to utilize practical classroom application while encouraging students to develop their own teaching philosophy and professional identity as future English language educators.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

Discuss and critically evaluate a wide variety of topics related to the profession of teaching English, using appropriate educational terminology.

Analyze different teaching methods and select appropriate strategies for different kinds of learners.

Design clear, engaging, and learner-centered lesson plans that incorporate appropriate learning objectives, teaching materials, classroom activities, and assessment methods.

Deliver an effective micro-teaching lesson that demonstrates the practical application of teaching principles, classroom management skills, and effective communication techniques.

Develop confidence in presenting educational ideas, collaborating with peers, and participating in professional discussions related to English language education.

[3] Class Delivery Method

This course will be delivered primarily through face-to-face classroom instruction using a variety of interactive teaching methods designed to promote active learning and student participation. Lessons will incorporate PowerPoint presentations, instructional videos, group discussions, collaborative learning activities, and practical teaching demonstrations.

Students will regularly engage in pair and small-group discussions to analyze teaching issues, evaluate classroom scenarios, and exchange ideas with classmates.

Course materials, including lecture slides, handouts, worksheets, reading materials, and supplementary resources, will be provided throughout the semester. Students are expected to participate actively in classroom activities, and contribute constructively to discussions. Multimedia resources and authentic teaching materials will be incorporated whenever appropriate to enhance understanding and provide real-world examples of effective English language teaching practices.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	30 %	0 %	30 %	0 %	10 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	20 %	20 %	0 %	0 %

[4] Grading Policies

Grading & Attendance

Attendance accounts for 20 points of the final grade. If a student misses 1 hour, they lose 0.5 points from their final grade. If a student is late 3 times, they lose 1 point from their final grade. If a student misses more than 1/3 (5 classes) of the classes, they fail the course.

Participation

Participation accounts for 20 points of the final grade. Students are expected to participate in all activities during class. Participation may also include homework depending on the situation and the professor.

Midterm & Final Exams

The exams are assessments of student's knowledge of the material covered in class. There will be two written tests, one midterm test and one final test. Each test will be worth 20 percent of the students grade. Two quizzes will also be administered during the semester and are worth 10% each. add more detail to this grading

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment

60	%	20	%	20	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Handouts will be provided	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Kakaotalk class groups
Second week	1st enagaement material
Third week	2nd enagaement material
Fourth week	3rd enagaement material
Fifth week	4th enagaement material
Sixth week	5th enagaement material
Seventh week	Midterm test practice and sign ups
Eighth week	MIDTERM TEST
Ninth week	6th enagaement material
Tenth week	7th enagaement material
Eleventh week	8th enagaement material
Twelfth week	9th enagaement material
Thirteenth week	WRITTEN TEST
Fourteenth week	final exam practice and sign ups
Fifteenth week	FINAL TEST
Sixteenth week	

[7] Assignments

	assignment	midterm speaking test	submission date	2026-10-21 Wed

The first assignment	purpose	to evaluate the ability of students speech in sharing ideas.		
	procedure & notice	in class with the teacher		
	references			
The second assignment	assignment	written test	submission date	2026-11-25 Wed
	purpose	evaluate the uptake of grammar		
	procedure & notice	in class		
	references			
The third assignment	assignment	final speaking test	submission date	2026-12-09 Wed
	purpose	to evaluate students speech when sharing teaching plan and ideas		
	procedure & notice	in class with the teacher		
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	English Grammar		Course Number	0003516001		
Major / School Year	Dept. of English Language Education	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of English Language Education	/ 김정수	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[NC-209:화(4-5A),목(7-8A)]			
Office hours	TBA		Medium of Instruction	EN		

[1] Outline / Purpose

This course provides students with a systematic understanding of English grammar from both theoretical and pedagogical perspectives. While the course is based primarily on the framework of Transformational Grammar, especially as introduced in Radford's Transformational Grammar: A First Course, it also aims to help students connect formal grammatical analysis with English grammar teaching in secondary school contexts.

Students will learn how English sentence structures can be analyzed in terms of phrase structure, phrase-markers, noun phrases, other phrase types, clauses, lexical information, and transformations. The course will also introduce key concepts such as constituent structure, syntactic categories, grammatical functions, subcategorization, movement, and the relationship between deep structure and surface structure.

As this course is designed for pre-service English teachers, students will be encouraged to think about how grammatical knowledge can be transformed into clear, accurate, and teachable explanations. Throughout the semester, students will solve grammar problems, compare traditional school grammar with formal grammatical analysis, participate in group discussions, and design short grammar-teaching activities. Students will also have opportunities to use AI and digital tools critically for grammar explanation, formative assessment, and micro-teaching.

By the end of the course, students are expected to develop not only grammatical knowledge, but also the ability to analyze English sentences, explain grammar clearly, and apply grammatical insights to English language teaching.

[2] Course Learning Outcomes

By the end of the course, students will be able to:

1. Understand the basic concepts and theoretical assumptions of Transformational Grammar.
2. Identify major English word classes, phrase types, grammatical functions, and clause structures.
3. Analyze English sentence structures using phrase-markers and basic tree diagrams.
4. Explain the structure of noun phrases, verb phrases, adjective phrases, adverb phrases, and prepositional phrases.
5. Analyze English clauses in terms of subject, predicate, complement, object, adjunct, tense, auxiliary, and agreement.
6. Understand the role of the lexicon in grammar, including subcategorization, selectional restrictions, and argument structure.
7. Explain basic transformational operations and apply them to selected English constructions.
8. Compare formal grammatical analysis with school grammar explanations and identify pedagogical implications.
9. Design short grammar-teaching activities that are accurate, learner-friendly, and appropriate for secondary English education.
10. Use digital and AI-based tools critically and responsibly to support grammar learning, formative assessment, and micro-teaching.
11. Provide constructive peer feedback and reflect on their own grammar teaching performance.

※ 핵심 역량 및 소양

- (6C 역량) 지식탐구(Knowledge exploration), 의사소통(Communication), 문제해결(Problem solving), 창의융합(Integrated creativity), 협업인성(Collaborative competence)
- (미래소양) 디지털(Digital)

[3] Class Delivery Method

This course will be conducted through face-to-face meetings in the designated classroom. Class sessions will combine lectures, guided sentence analysis, group problem-solving, discussion, and micro-teaching practice.

Method of Teaching

- Lecture: 50%
- Discussion and guided analysis: 25%
- Group problem-solving activities: 15%
- Practice and micro-teaching: 10%

Teaching and Learning Features

: This course emphasizes collaborative learning, analytical reasoning, and practical application. Students will regularly analyze English sentences individually and in groups. They will also discuss how formal grammatical concepts can be explained more effectively to secondary school learners.

Digital and AI-based tools may be used for the following purposes:

- Generating and evaluating grammar examples
- Comparing AI-generated grammar explanations with textbook-based explanations
- Designing grammar activities for micro-teaching

Students should not accept AI-generated grammar explanations without verification. They are expected to evaluate whether such explanations are linguistically accurate, pedagogically appropriate, and suitable for secondary school learners.

※ 수업방식 특징: 협동학습(Collaborative learning)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	40 %	0 %	10 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Evaluation Components

- Attendance and participation: 20%
- Group homework assignments: 15%
- Micro-teaching and reflection paper: 5%
- Midterm exam: 30%
- Final exam: 30%

Group Homework Assignments

: Each assignment will require students to analyze selected English sentences, draw phrase-markers or structural representations when necessary, and justify their answers using grammatical evidence.

Micro-teaching

: The lesson should demonstrate both grammatical accuracy and pedagogical clarity.

Students will be evaluated based on the following criteria:

- Clarity and organization of the lesson plan
- Appropriate use of teaching materials and, where relevant, AI/digital tools
- Quality of classroom interaction and presentation
- Quality of peer feedback and self-reflection

Exams

: The midterm and final exams will assess students' understanding of key grammatical concepts, their ability to analyze English sentence structures, and their ability to explain grammar clearly.

⑦ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Andrew Radford	Publisher	Cambridge University Press	Textbook	Transformational Grammar: A First Course	Issued year	1988
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction — Why Study English Grammar? - Course introduction - Why grammar matters for future English teachers Chapter 1: Goals - Diagnostic activity: What do we already know about English grammar?
Second week	Chapter 2. Structure - Constituents and hierarchical structure - Linear order vs. structural relation - Basic phrase structure - Group homework assignment regarding selected exercises
Third week	Chapter 3. Phrase-Markers - Phrase structure rules - Tree diagrams and phrase-markers - Structural ambiguity

	– Tree-drawing practice – Group homework assignment regarding selected exercises
Fourth week	Chapter 4. Noun Phrases – Determiners, modifiers, complements, and heads – School grammar explanations of noun phrases – Internal structure of noun phrases
Fifth week	Chapter 4. Noun Phrases (cont'd) – Possessives, determiners, and postmodification – Relative clauses as noun modifiers – Group homework assignment regarding selected exercises
Sixth week	Chapter 5. Other Phrases – Verb phrases – Adjective phrases – Adverb phrases – Prepositional phrases – Phrase-level comparison across categories
Seventh week	Chapter 5. Other Phrases (cont'd) – Complements and adjuncts – Form-function distinction – Phrase analysis and English teaching – Group homework assignment regarding selected exercises
Eighth week	Review Midterm Exam
Ninth week	Chapter 6. Clauses – Clause structure – Subject and predicate – Tense, auxiliary, and agreement – Main clauses and subordinate clauses
Tenth week	Chapter 6. Clauses (cont'd) – Finite and non-finite clauses – Complement clauses – Relative clauses – Adverbial clauses – Group homework assignment regarding selected exercises
Eleventh week	Chapter 7. Lexicon – Subcategorization – Argument structure – Selectional restrictions – Verb types and sentence patterns – Group homework assignment regarding selected exercises
Twelfth week	Chapter 8. Transformations – Deep structure and surface structure – Movement and empty positions – Passive transformation – Subject-auxiliary inversion
Thirteenth week	Chapter 8. Transformations (cont'd) – Wh-movement – Relative clause formation – Transformations and English grammar teaching – Group homework assignment regarding selected exercises
Fourteenth week	Micro-teaching – to enhance general teaching competence through micro-teaching presentations – to develop practical teaching skills by using AI/digital tools – to foster critical thinking and a sense of community via self-reflection and peer feedback
Fifteenth week	Review Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third	assignment		submission date	
	purpose			

assignment	procedure & notice	
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	English Teaching Using Drama	Course Number	0009799001
Major / School Year	Dept. of English Language Education / 2	completion division / Grade evaluation	/
Department/Professor	/ 매튜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[NC-209:목(1)(2)(3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course provides students with the opportunity to engage in an in-depth study of two significant works of twentieth-century American drama: Arthur Miller's *Death of a Salesman* and Tennessee Williams' *A Streetcar Named Desire*. Through close reading, classroom discussion, and critical analysis, students will examine the historical, social, and cultural contexts in which these plays were written, while exploring the universal themes that continue to make them relevant today.

Topics such as the American Dream, identity, family relationships, mental health, gender roles, power, class, illusion versus reality, and personal tragedy will be explored through both literary and contemporary perspectives. Students will be encouraged to compare the issues presented in the plays with modern society and develop their own informed interpretations supported by textual evidence.

In addition to literary analysis, the course will help students develop the language skills necessary for teacher certification and English teaching examinations. Selected passages from both texts will be used to practice reading comprehension, vocabulary development, literary interpretation, and exam-style questions commonly found in teacher qualification examinations. Throughout the course, students will strengthen their critical thinking, analytical writing, discussion, and presentation skills while gaining a deeper appreciation of classic American literature.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

Demonstrate a comprehensive understanding of the plot, characters, themes, symbolism, and dramatic techniques used in *Death of a Salesman* and *A Streetcar Named Desire*.

Analyze literary texts using appropriate critical approaches and support interpretations with textual evidence.

Explain how historical, cultural, and social contexts influence the meaning and interpretation of literary works.

Compare and contrast the major themes and characters presented in both plays and evaluate their relevance to contemporary society.

Participate confidently in class discussions, debates, and presentations using appropriate academic English and literary terminology.

Develop well-organized written responses and literary analyses that demonstrate critical thinking and effective communication skills.

Apply knowledge of the texts to answer teacher certification examination-style reading comprehension and literary analysis questions.

Strengthen academic reading, vocabulary, and analytical skills that support future English teaching and professional development.

[3] Class Delivery Method

This course will be delivered through face-to-face classroom instruction using a variety of teaching methods designed to encourage active participation and critical engagement with literary texts.

Each class will include a combination of:

Instructor-led lectures introducing key literary concepts and historical background.

Close reading and guided analysis of selected passages from both plays.

PowerPoint presentations highlighting major themes, literary devices, and character development.

Class discussions, debates, and small-group activities that encourage students to share and defend their interpretations.

Reading comprehension exercises and teacher examination-style practice questions based on excerpts from the plays.

Student presentations and collaborative learning activities focused on character analysis, themes, symbolism, and dramatic techniques.

Occasional video clips and theatrical performances to enhance students' understanding of staging, characterization, and dramatic interpretation.

Students will receive lecture slides, reading guides, worksheets, and supplementary handouts throughout the semester. Independent reading of assigned sections before class is expected to facilitate meaningful discussion and participation. Students are encouraged to engage critically with the texts, ask questions, and contribute thoughtfully to classroom discussions. Regular participation and preparation are essential for success in this course, as much of the learning occurs through

collaborative analysis and discussion of the literary works.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	30 %	0 %	30 %	0 %	10 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

Grading & Attendance

Attendance accounts for 20 points of the final grade. If a student misses 1 hour, they lose 0.5 points from their final grade. If a student is late 3 times, they lose 1 point from their final grade. If a student misses more than 1/3 (5 classes) of the classes, they fail the course.

Participation

Participation accounts for 20 points of the final grade. Students are expected to participate in all activities during class. Participation may also include homework depending on the situation and the professor.

Midterm & Final Exams

The exams are assessments of student's knowledge of the material covered in class. There will be two written tests, one midterm test and one final test. Each test will be worth 20 percent of the students grade. Two quizzes will also be administered during the semester and are worth 10% each.

⑤ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	handouts to be provided in class	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Kakaotalk class group
Second week	Introduction and setting the stage "Death of a Salesman"
Third week	Unravelling the characters Teachback 1
Fourth week	Themes and Symbolism Teachback 2
Fifth week	Themes and Symbolism Teachback 3
Sixth week	Essay practice
Seventh week	QUIZ 1

Eighth week	Midterm writing
Ninth week	Introduction and setting the stage "Streetcar named Desire"
Tenth week	Unravelling the Characters Teachback 4
Eleventh week	Themes and Symbolism Teachback 5
Twelfth week	Themes and Symbolism Teachback 6
Thirteenth week	Essay practice
Fourteenth week	QUIZ 2
Fifteenth week	Final writing
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quizzes	submission date	2026-10-15 Thu
	purpose	To practice short answers for the teacher's exam		
	procedure & notice	In class (pen and paper)		
	references			
The second assignment	assignment	Midterm essay	submission date	2026-10-22 Thu
	purpose	To practice paragraph writing for the teacher's essay		
	procedure & notice	In class (pen and paper)		
	references			
The third assignment	assignment	Final essay	submission date	2026-12-10 Thu
	purpose	To practice paragraph writing for the teacher's essay		
	procedure & notice	In class (pen and paper)		
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	English Essays For Personality Education	Course Number	0008824001
Major / School Year	Dept. of English Language Education / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language Education / 최유정	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [NC-209:화(1-2A)] [ZZ-200:금(0A1-2A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

본 수업은 중등교육 현장에서 발생할 수 있는 다양한 윤리 문제에 대비하기 위한 기초 소양과 영어 독해 능력을 동시에 함양하는 것을 목표로 한다. 인문학, 과학, 사회학 분야를 아우르는 고전을 영어로 읽는 융복합 수업을 지향하며, 매주 강의를 미리 시청한 뒤 모의수업과 조별 토론에 참여하는 플립러닝 방식을 활용한다. 노동, 기후환경, 젠더, 인종, 사랑 등 텍스트에서 제기되는 윤리적 이슈를 파악하고, 모둠별 토론을 통해 문제해결 역량을 기른다. 학기 말에는 고전 텍스트를 활용하여 중학교 자유학년제 프로그램을 직접 기획하는 계획서를 제출하도록 한다.

[2] Course Learning Outcomes

본 강좌는 다음과 같은 5가지 구체적인 목표를 지닌다.

- 인문학, 사회학, 과학 분야의 영어 글을 읽는 능력을 제고한다.
- 인생을 철학적, 종교적, 문학적으로 깊이 있게 바라보는 능력을 제고한다.
- 타인에 대한 의식을 증진시킴으로써 interpersonal sensitivity를 제고한다.
- 중등교육현장의 각종 윤리적 문제에 대한 나름의 해결책을 강구해 본다.

[역량 및 소양 관련]

- (1) 6C 역량: 지식탐구(), 의사소통(O), 문제해결(O), 창의융합(O), 협업인성(O), 도전창조()
- (2) 미래소양: 디지털(), 기후환경(O), 인구구조(O)
- (3) 교육현장이해도()
- (4) 교직인적성(O)
- (5) 성인지/성평등/반편견(O)

[3] Class Delivery Method

수업 구성

- 1) [온라인 강의] 영어 고전에 대한 해설
- 2) [모의수업] 활동, 토론 중심의 모의 수업 진행
- 3) [조별 토론] 강의와 모의수업에서 제기된 문제에 대한 조별 토론

※ 수업 방식 특징: 융복합수업, 플립러닝, 협동학습

※ 모의수업: 학생들은 정해진 텍스트를 활용하여 인문학, 사회과학, 자연과학 등의 분야를 고등학교 영어 수업에 녹여내는 융복합 수업을 시연하도록 한다. 모의수업은 강의보다는 학생들의 참여를 이끌어내는 활동 중심으로 구성하도록 한다.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	Penguin	Textbook	Henry David Thoreau American, "Walden"	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	강의 소개
Second week	[텍스트] George Orwell, "Shooting an Elephant" [온라인 강의 시청] [수업 조별 토론 주제] 제국주의, 인종, 다문화 사회
Third week	[텍스트] Bertrand Russell, "In Praise of Idleness" [온라인 강의 시청] [수업 조별 토론 주제] 노동, 인간성, 창의성
Fourth week	[텍스트] Carl Sagan, "Chapter 1 & 2" from Cosmos [온라인 강의 시청] [수업 조별 토론 주제] 인류와 우주
Fifth week	[텍스트] Yuval Noah Harari, "2. The Three of Knowledge" from Sapiens [온라인 강의 시청] [수업 조별 토론 주제] 인류의 기원과 호모 사피엔스의 특징
Sixth week	[텍스트] Virginia Woolf, A Room of One's Own, Ch. 1 & 3 [온라인 강의 시청] [수업 조별 토론 주제] 가부장제 사회에서의 여성 예술가 (성인지, 반편견)
Seventh week	Wrap-Up
Eighth week	중간 시험
Ninth week	[텍스트] Erich Fromm, The Art of Loving [온라인 강의 시청] [수업 조별 토론 주제] 현대 사회의 문제점과 사랑의 윤리
Tenth week	[텍스트] Jonathan Swift, "A Modest Proposal" [온라인 강의 시청] [수업 조별 토론 주제] 영국의 식민지로서의 아일랜드, 다문화 사회, 인종차별
Eleventh week	[텍스트] Thomas Malthus, An Essay on the Principle of Population [온라인 강의 시청] [수업 조별 토론 주제] 인구 증가와 감소의 법칙, 현대 한국 사회 인구 감소에 대한 원인 분석
Twelfth week	[텍스트] Walden, "Economy" [온라인 강의 시청] [수업 조별 토론 주제] 자연과 더불어 살아가는 인간, 기후위기에 대한 반성
Thirteenth week	[텍스트] Walden, "Where I Lived, And What I Lived For, & Reading" [온라인 강의 시청] [수업 조별 토론 주제] 소비 사회와 미니멀리즘
Fourteenth week	[텍스트] Walden, "Sounds, Solitude, Visitors" [온라인 강의 시청] [수업 조별 토론 주제] 현대 사회와 고독
Fifteenth week	기말 시험 기말 보고서: 월든을 활용하여 중학교 자유학년제 수업 기획해보기 (교육인적성, 교육현장 이해)
Sixteenth week	

[7] Assignments

The first assignment	assignment	기말 보고서	submission date	2026-12-21 Mon
	purpose	『Walden』을 활용한 중학교 자유학년제 영어 수업을 설계하며 교육과정, 학습자 특성, 교수·학습 활동을 연계하는 능력을 기른다.		
	procedure & notice	학습 목표, 교수·학습 활동, 평가 계획 및 자유학년제의 취지를 반영한 프로젝트 활동을 포함하여 실제 학교 현장에서 활용 가능한 수업을 설계한다.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third	assignment		submission date	
	purpose			

assignment	procedure & notice	
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Multimedia and AI Assisted English Language Education	Course Number	0011987001
Major / School Year	Dept. of English Language Education / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김혜영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358127	A weekday / class / lecture room	[NC-316:월(4-5A),수(4-5A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

- 본 교과목은 디지털 기술 활용 역량을 갖춘 미래형 영어교사를 양성하는 것을 목표로 한다. 학생들은 컴퓨터 및 디지털 기술 기반 영어교육의 이론과 원리를 이해하고, 이를 바탕으로 영어 교수·학습에 활용되는 다양한 디지털 기술과 AI 기반 교육 도구를 효과적으로 활용하고 개발하는 역량을 기른다. 특히 2022 개정 영어과 교육과정에서 강조하는 디지털 소양과 AI에 대한 이해를 바탕으로, 디지털 기반 교육 전환에 요구되는 교사의 디지털 교수 역량 및 AI 리터러시를 함양한다.
- 중등 영어교사 임용시험에서 요구하는 디지털 기반 교수·학습 역량과 AI·에듀테크 활용 관련 평가 요소를 이해하고, 임용시험 준비에 필요한 기초 지식과 실천 역량을 함양한다.
- 실습 중심의 수업을 통해 예비교사들은 디지털 기술을 교육적 목적에 맞게 비판적으로 활용하고, 학습자 중심의 영어 수업을 설계할 수 있는 전문성을 함양하며, 자신만의 AI·디지털 기반 영어 교수·학습 모형을 개발할 수 있는 역량을 기른다.
- 본 교과목은 영어교육과 전 학년 학생을 대상으로 운영되며, 학년에 관계없이 누구나 수강할 수 있다. 디지털 기술이나 프로그래밍에 대한 사전 지식이 없어도 기초부터 단계적으로 학습할 수 있도록 구성되어 있으며, 생성형 AI를 비롯한 다양한 디지털 도구를 실습 중심으로 익혀 예비 영어교사에게 필요한 디지털 교수 역량과 중등 영어교사 임용시험에서 요구하는 디지털 기반 교수·학습 역량을 체계적으로 함양할 수 있도록 설계되었다.

[2] Course Learning Outcomes

- 컴퓨터 및 디지털 기술 기반 영어교육의 기본 이론과 원리를 이해할 수 있다.
- 디지털 기술을 활용한 영어 교수·학습 모형을 설계하고 적용할 수 있다.
- 디지털 기기와 AI 기반 도구를 활용하여 학습자의 수준을 진단하고 학습 과정을 평가할 수 있다.
- 2022 개정 교육과정에서 요구하는 디지털 소양과 교사의 디지털 역량을 이해하고 실천할 수 있다.
- 인공지능(AI)의 기본 원리와 신뢰성, 윤리적 쟁점을 이해하고 이를 교육 현장에 적절하게 적용할 수 있다.
- 중등 영어교사 임용시험에서 요구하는 디지털 기반 교수·학습 및 평가 역량을 이해하고, 임용시험 준비에 필요한 기초 지식과 실천 역량을 함양할 수 있다.

※ 핵심 역량 및 소양

(6C 역량) 지식탐구, 의사소통, 문제해결, 창의융합, 협업인성, 도전창조,
(미래소양) 디지털, 인구구조,
교육현장이해도, 교직인적성, 반편견

[3] Class Delivery Method

- 본 강의는 실습 중심으로 운영된다. 매주 주제별 핵심 이론을 학습하고 토의한 후, 해당 주제와 연계된 다양한 디지털 및 AI 기반 교육 도구를 직접 실습하며 영어 수업에 적용하는 방법을 익힌다.
- 본 강의는 학년에 상관없이 모두 수강 가능하도록 운영한다. 특히 코딩이나 전문적인 컴퓨터 프로그래밍 능력없이도 예비 영어교사가 학교 현장에서 쉽게 활용할 수 있는 생성형 AI, 에듀테크 및 멀티미디어 도구를 중심으로 실습을 진행한다.
- 학생들은 다양한 디지털 도구를 활용하여 영어 교수·학습 자료를 제작하고, 디지털 기반 영어 수업을 설계·시연하며, 동료 및 교수자의 피드백을 통해 수업을 개선하는 과정을 경험한다.
- 학기 말에는 팀 프로젝트를 통해 AI와 디지털 기술을 활용한 영어교육 앱/웹사이트/디지털 학습 콘텐츠 등 개발 결과를 발표한다.
- 임용시험에서 요구되는 예비 영어교사의 디지털 교수 역량을 함양하고 실무 역량을 강화한다.

※ 수업 운영의 특징

프로젝트 기반, 협동학습, 현장 전문가 초청 특강
컴퓨터실 및 미래교육센터를 활용한 실습 중심 수업
영어교육 앱·웹사이트/디지털 콘텐츠/ 개발 프로젝트

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
20 %	20 %	60 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	자체교재	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	• Introduction to the course - 강좌 목표·평가·과제 안내 • 2022 개정교육과정과 디지털기반 교육 이해 - 2022 개정 교육과정이 강조하는 디지털 기반 교육과 '디지털 소양'의 교과 통합 방향을 이해한다
Second week	• 에듀테크 활용 영어 교육 역사 • 에듀테크 활용 영어교육 이론
Third week	• 디지털 리터러시 - 디지털 리터러시의 개념과 구성 요소(정보 탐색·평가, 디지털 소통, 콘텐츠 창작, 안전·책임)와 교사·학습자에게 요구되는 디지털 역량을 이해한다. • Computer Assisted Language Teaching - 플러닝·블렌디드 러닝·과제 기반 학습(TBLT)에의 AI 통합, 개별화·맞춤형 학습, 교사의 역할 변화를 다룬다.
Fourth week	• 디지털기술 활용 영어 읽기 교육 - 디지털 읽기 환경의 특성, 수준별(differentiated) 읽기 자료 개발, 읽기 전·중·후 활동 설계를 이해한다.
Fifth week	• 디지털기술 활용 영어 쓰기 교육 - 과정 중심 쓰기, 협력적 글쓰기, 동료·자동 피드백, AI 작문 보조의 교육적 활용과 한계를 이해한다. • 휴일: 동영상 보강
Sixth week	• 디지털기술활용 영어 말하기 교육 • 디지털기술활용 영어 듣기 교육 - 컴퓨터 매개 의사소통 종류 이해, 화상 상호작용, authentic 듣기 자료 개발 및 활용, AI 회화·발음 피드백을 다룬다.
Seventh week	• 디지털기술 활용 영어 문법교육 • 디지털기술 활용 영어 어휘교육 - 게임 기반 학습(gamification), 맥락 기반 어휘 지도, AI 활용 문항·예문 생성을 다룬다.
Eighth week	중간고사
Ninth week	• AI Prompt Engineering - 생성형 AI·거대언어모델(LLM)의 원리와 교육적 가능성·한계를 이해하고, 좋은 프롬프트의 요소와 원리를 학습한다. • AI 활용 사회정서지원 학습 • 융복합수업: AI통과문학수업
Tenth week	• AI 및 디지털기술활용 평가 방법 - 교육 현장에서 디지털 도구활용 평가 방법, 수행평가 루브릭 제작, AI 활용 피드백 제공 방법, 생기부 작성 팁, AI 활용 평가 유의점(공정성·타당도)을 다룬다.
Eleventh week	• 나만의 AI Apps 개발 - 노코드·AI 기반 제작의 개념을 이해하고, 맞춤형 챗봇·간단한 웹앱으로 영어 학습을 지원하는 방법을 탐색한다.
Twelfth week	• AI·멀티미디어 통합 수업 설계 방법 -TPACK 모형 적용을 통해 학습목표·활동·평가를 정렬한 테크놀로지 통합 수업 설계 방법을 이해한다.
Thirteenth week	• 현장 전문가 초청 특강 • 인공지능(AI)이해 및 AI 융합교육
Fourteenth week	• 디지털 윤리 교육 - 표절·학문적 정직성, AI 환각·편향, 개인정보·저작권, 디지털 시민성, 학생 지도 원칙을 다룬다.
Fifteenth week	• 실습 과제 발표 & 총정리 - 최종 프로젝트를 발표하고 상호 피드백하며 강좌를 성찰한다.
Sixteenth	

week	

[7] Assignments

The first assignment	assignment	영어 교육 용 웹사이트/앱 개발	submission date	
	purpose			
	procedure & notice	매주 배우는 이론에 기반하여 영어 교육용 도구를 스텝별로 개발하고 공유한다.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	English Syntax and School Grammar	Course Number	0011490001
Major / School Year	Dept. of English Language Education / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김정수	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[NC-209:월(8B-9),목(8B-9)]
Office hours	TBA	Medium of Instruction	EN

[1] Outline / Purpose

This course introduces students to the syntactic analysis of English sentences, with particular attention to the relationship between formal syntactic theory and school grammar. The course adopts key concepts from Generative Grammar and applies them to the analysis of English sentence structures. Major topics include syntactic categories, grammatical functions, phrase structure, X-bar syntax, clause structure, movement operations, constituency tests, and selected topics in transformational grammar.

The course is also designed for pre-service English teachers. Therefore, students will not only analyze English sentences from a formal linguistic perspective, but also consider how syntactic insights can be connected to English grammar teaching in secondary school contexts. Throughout the semester, students will compare traditional school grammar explanations with formal syntactic analyses and examine how these two perspectives can complement each other in the classroom.

In addition, students will engage in group-based problem solving, syntactic argumentation, peer discussion, and micro-teaching. They will also explore how digital and AI-based tools can support grammar explanation, classroom interaction, and formative assessment. By the end of the course, students are expected to develop both theoretical understanding and practical pedagogical competence in teaching English grammar.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

1. Identify and analyze major English syntactic categories, grammatical functions, phrase structures, and clause structures.
3. Apply constituency tests, including movement, substitution, coordination, and question-answer tests, to determine syntactic units.
3. Explain core concepts of Generative Grammar, including X-bar syntax, movement, empty categories, and structural relations such as c-command.
4. Analyze selected English constructions, including passive constructions, raising and control constructions, wh-movement, and relative clauses.
5. Compare traditional school grammar explanations with formal syntactic analyses and identify their pedagogical implications.
6. Develop syntactic arguments based on grammaticality judgments, structural evidence, and counterexamples.
7. Design short grammar teaching activities that incorporate syntactic insights into secondary English education.
8. Use digital and AI-based tools critically and appropriately for grammar teaching, formative assessment, and micro-teaching.
9. Provide constructive peer feedback and reflect on their own teaching performance.

※ 핵심 역량 및 소양

- (6C 역량) 지식탐구(Knowledge exploration), 의사소통(Communication), 문제해결(Problem solving), 협업인성(Collaborative competence)
- (미래소양) 디지털(Digital)

[3] Class Delivery Method

This course will be conducted through face-to-face meetings in the designated classroom. Class sessions will combine lectures, guided analysis, group discussion, problem-solving activities, and micro-teaching practice.

Method of Teaching

- Lecture: 50%
- Discussion and guided analysis: 25%
- Group problem-solving activities: 15%
- Practice and micro-teaching: 10%

This course emphasizes collaborative learning, analytical reasoning, and practical application. Students will regularly analyze English sentences individually and in groups. They will also discuss how formal syntactic concepts can be transformed into teachable explanations for secondary school learners.

Digital and AI-based tools may be used selectively for the following purposes:

- Checking students' understanding through formative assessment tools
- Supporting grammar explanation and classroom interaction
- Generating, revising, and evaluating teaching materials
- Reflecting on micro-teaching performance

Students should use digital and AI tools critically. AI-generated explanations must not be accepted without verification, and students are expected to evaluate whether such explanations are linguistically accurate and pedagogically appropriate.

※ 수업방식 특징: 협동학습(Collaborative learning)

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	40 %	0 %	10 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Evaluation Components

- Attendance and participation: 20%
- Group homework assignments: 15%
- Micro-teaching and reflection paper: 5%
- Midterm exam: 30%
- Final exam: 30%

Group Homework Assignments

: These assignments will require students to solve selected exercises, justify their analyses, and compare alternative explanations when necessary.

Micro-teaching

: The micro-teaching should demonstrate both linguistic understanding and pedagogical applicability.

Evaluation criteria

- Clarity and organization of the lesson plan
- Effective use of teaching materials and, where appropriate, digital/AI tools
- Quality of presentation and classroom interaction
- Quality of peer feedback and self-reflection

Exams

: The midterm and final exams will assess students' understanding of key concepts, their ability to analyze English sentence structures, and their ability to construct syntactic arguments.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bas Aarts	Publisher	Bloomsbury Academic	Textbook	English Syntax and Argumentation (6th edition)	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Andrew Radford	Publisher	Cambridge University Press	Textbook	Transformational Grammar: A First Course	Issued year	1988
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to English Syntax and School Grammar - Course introduction - Why syntax matters for English teachers - Basic concepts: word, phrase, clause, sentence - Diagnostic activity: What makes a sentence grammatical?
Second week	Grammatical Form - Lexical categories and functional categories - Nouns, verbs, adjectives, adverbs, prepositions, determiners - Syntactic category analysis - Group exercise: category identification and category ambiguity
Third week	Grammatical Function - Subject, predicate, object, complement, adjunct - Form-function distinction - Group exercise: distinguishing form and function in English sentences
Fourth week	More on Form: Clauses and Sentences - Finite and non-finite clauses - Subordinate, matrix, and main clauses

	– Coordination and subordination – Clause-level analysis and pedagogical explanation
Fifth week	The Grammatical Form–Grammatical Function Interface – Noun phrases functioning as subjects, objects, and complements – Prepositional phrases as complements and adjuncts – Adjective phrases and adverb phrases – Classroom application: explaining form and function to secondary students
Sixth week	Cross-Categorial Generalizations: X-Bar Syntax – Heads, complements, specifiers, and adjuncts – Cross-categorial generalizations – Phrase structure rules and X-bar schema – Tree-drawing practice
Seventh week	More on Clauses – VP structure – Auxiliary verbs and tense – Complementation patterns – Review of major syntactic structures
Eighth week	Review Midterm Exam
Ninth week	Movement – Basic concept of movement – Subject-auxiliary inversion – Passive movement – Movement and empty positions – School grammar and transformational explanation
Tenth week	Constituency: Movement and Substitution – Movement test – Substitution test – Applying tests to ambiguous structures – Group problem-solving activity
Eleventh week	Constituency: Some Additional Tests – Coordination test – Pro-form replacement test – Question-answer test – Clefting and pseudoclefting – Limitations of constituency tests – Syntactic argumentation practice
Twelfth week	Wh Movement from Radford (1988) – Wh-questions – Wh-movement and extraction sites – Subject/object asymmetry – Introduction to constraints on movement – Selected examples from Radford
Thirteenth week	Wh Movement from Radford (1988) (cont'd) – Wh-movement continued – Island constraints – That-trace effect – Relative clauses – Teacher certification exam-style analysis
Fourteenth week	Micro-teaching – to enhance general teaching competence through micro-teaching presentations – to develop practical teaching skills by using AI/digital tools – to foster critical thinking and a sense of community via self-reflection and peer feedback
Fifteenth week	Review Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Method of Teaching Basketball	Course Number	0002827001
Major / School Year	Dept. of Physical Education / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physical Education / 이승용	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number	A weekday / class / lecture room [21-101A:화(8)(9)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

In this course, students will learn the history, culture, characteristics, and rules of basketball, and experience basketball directly through practical skills. In addition, as a pre-service physical education teacher, the purpose is to make it possible to provide basketball learning guidance suitable for the current curriculum in the middle and high school field. To achieve these class goals, peer learning and guidance methods and cooperative learning methods were reflected to improve class performance. To this end, students will learn basic individual basketball skills such as shooting, dribbling, passing, and basic physical strength. Furthermore, they learn high-level content such as team offensive and defensive tactics in general. As a result, the purpose is to provide students with methods that can be used directly in their school sports field by dealing with basic training methods in detail based on basic skills. In addition, students will explore how AI and digital technologies can be integrated into basketball instruction to enhance teaching effectiveness. Tools such as motion analysis apps and digital video feedback will be introduced to support skill development and instructional reflection.

[2] Course Learning Outcomes

Upon successful completion of the course, students will be able to:

- 1) explain the history, characteristics, culture, and the effects of running, throwing, and teamwork in basketball.
- 2) acquire basic skills of basketball and understand and explain ways to foster physical strength and training through basketball in the school system.
- 3) learn team-oriented offensive and defensive tactics to create a positive effect on the operation of the basketball sports league on the school field.
- 4) understand and explain the spirit of cooperation, unity, volunteer, and sacrifice through basketball.
- 5) utilize AI and digital tools such as video analysis, motion tracking, and feedback applications to enhance basketball skill development, instructional strategies, and student engagement in school settings.

- [역량 및 소양 관련]

- (1) 6C 역량: 지식탐구(O), 의사소통(O), 문제해결(O), 창의융합(), 협업인성(O), 도전창조(O)
- (2) 미래소양: 디지털(O), 기후환경(), 인구구조()
- (3) 교육현장이해도(O)
- (4) 교직인적성(O)
- (5) 성인지/성평등/반편견()

[3] Class Delivery Method

- 1) This class utilizes various teaching methods including lectures by the instructor, demonstration of skills, peer learning and teaching, cooperative learning, practice, and the use of AI and digital devices for enhanced instruction and feedback.
- 2) In this class, each student selects the difficulty level to learn basic skills and movements, provides feedback to each other through cooperative learning, and learns how to actively operate the class through simulated class demonstrations using digital video analysis and teaching tools.
- 3) Assessment of the subjects is conducted through discussions, assignments, and digital tools that support performance tracking and reflective learning.

- [현장기반 수업 방식] 융복합수업(O), 팀티칭(O), 프로젝트기반(O), 협동학습(O), 플립러닝적용(), 현장전문가초빙(), 현장탐방()

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	50 %	0 %	10 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	30 %	0 %	20 %	0 %	30 %	0 %

[4] Grading Policies

Practical skill test (60%) / Mock teaching session and assignments (20%) / Attendance and attitude (20%)

Practical skill test:

- 1) Individual basketball basic drills, and movement
- 2) Team offensive and defensive strategies in basketball in combinations with individual skill sets and movement
- 3) Peer teaching and learning in a mock class simulation and cooperative learning methods for providing feedback to improve class performance.

Discussion and assignment:

- 1) Describe the physical strength improvement method in relation to basketball exercise
- 2) Schedule and write the contents of basketball classes according to the school's physical education curriculum

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Keith Miniscalco, Greg Kot	Publisher	Human Kinetics; second edition	Textbook	Survival guide for coaching youth basketball	Issued year	2015
(2)	Author	Ono Shuji	Publisher	Samho Media	Textbook	New basketball lesson	Issued year	2011
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture) Class orientation / Understanding the history, culture, and characteristics. Discussion) Describe the role of each position in basketball
Second week	Lecture and practice) Physical regulation and basic skills: Dash, stop, turn, and pivot in offensive and defensive matters. [Assign the task 1] (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Third week	Lecture and practice) Ball handling and personal basketball skills: Ball handling, ball receiving, freestyle ball controlling, and boxing out and rebounding. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Fourth week	Lecture and practice) Passing and catching: Chest pass, bound pass, one-hand pass, and overhead pass. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Fifth week	Lecture and practice) Dribbling: High dribble, low dribble, change of pace, crossover, between legs, and spin move. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Sixth week	Lecture and practice) Shooting: One-hand shot, two-hand shot, jump shot, layup shot, and dunk shot. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Seventh week	Lecture and practice) The basic skills of basketball and the combinations of movements: Comprehensive control of dribbling, passing, rebound, and ball controlling, which are the basics of basketball. *Present one-on-one classes according to individual proficiency [Submit the task 1] (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Eighth week	Mid-term exam Basketball basic drills, and movement.

Ninth week	Lecture) Basketball game rules and referee signals: Acquiring basketball game rules and referee signals to conduct school sports league basketball games as a preliminary physical education teacher. [Assign the task 2] (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Tenth week	Lecture and practice) Defensive strategies (1): Zone defense (2-3, 3-2, 1-3-1), Man-to-Man defense, combination defense, and press defense. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Eleventh week	Lecture and practice) Defensive strategies (2): Zone defense (2-3, 3-2, 1-3-1), Man-to-Man defense, combination defense, and press defense. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Twelfth week	Lecture and practice) Offensive strategies (slow attack): Screenplay, post play, cut-in play, Pick & Roll play, and backdoor play. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Thirteenth week	Lecture and practice) Offensive strategies (Fast break): 2 people fast break, 3 people fast break, and run and gun play. *Present one-on-one classes according to individual proficiency (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Fourteenth week	Lecture and practice) Review: Individual basic skills of basketball, utilizing video analysis tools and AI-based applications to assess and improve personal performance. Peer teaching and learning) Conduct a mock simulation directly and share feedback with each other throughout, incorporating digital recordings and AI-supported feedback tools to enhance instructional reflection and peer evaluation. (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 디지털 미래소양 강화, 프로젝트 기반, 팀 티칭 기법, 협동학습
Fifteenth week	Lecture and practice) Review: Team tactical skills in offensive and defensive positions, using AI-based strategy visualization tools and digital video analysis to evaluate team movements and coordination. Peer teaching and learning) Conduct a mock simulation directly and share feedback with each other throughout, supported by digital recordings and AI-assisted feedback systems to improve tactical understanding and communication. (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 디지털 미래소양 강화, 프로젝트 기반, 팀 티칭 기법, 협동학습
Sixteenth week	Final exam Comprehensive evaluations of: 1) Individual basketball basic drills and movement. 2) Team offensive and defensive strategies in basketball in combination with individual skill sets and movement. 3) Peer teaching and learning in a mock class simulation and cooperative learning for providing feedback to improve teaching methods of basketball, incorporating the use of AI tools and digital devices for performance analysis, feedback delivery, and instructional enhancement.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Outdoor Activity 1	Course Number	0011118001
Major / School Year	Dept. of Physical Education / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physical Education / 이승용	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number	A weekday / class / lecture room [19-109:금(0+1)(0+2)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

Recently, leisure sports have been in the spotlight getting more, and skiing as a winter sport is also attracting attention from many people. Based on this movement, ski classes are also being activated in the school system, and thus skiing is becoming a lifelong sport. As part of the pre-service teacher training, the purpose of this course is to learn details to pay attention to in guiding skiing, to learn the theories and principles of skiing so that ski guidance is possible in the school field, and to acquire practical skills. In addition, students will explore how AI and digital technologies can support ski instruction through tools such as motion tracking, performance analysis, and real-time feedback. These technologies will be introduced to enhance teaching effectiveness and improve students' practical skill development in skiing.

[2] Course Learning Outcomes

Upon successful completion of the course, students will be able to:

- 1) explain the history, characteristics, culture, and composition of skiing, as part of winter sports cultural activities.
- 2) cultivate an attitude that can understand and enjoy the value of daily winter sports.
- 3) understand and explain the conceptual principles of physical movement and motion of skiing.
- 4) acquire practical skills based on the technical theory of skiing.
- 5) understand the principles of ski exercise and acquire basic skills to cultivate leadership skills as a pre-service teacher.
- 6) apply AI and digital tools such as motion analysis systems, video feedback applications, and virtual simulation platforms to enhance ski instruction, performance assessment, and teaching effectiveness in educational settings.

- [역량 및 소양 관련]

- (1) 6C 역량: 지식탐구(O), 의사소통(O), 문제해결(O), 창의융합(), 협업인성(O), 도전창조(O)
- (2) 미래소양: 디지털(), 기후환경(), 인구구조()
- (3) 교육현장이해도(O)
- (4) 교직인적성(O)
- (5) 성인지/성평등/반편견()

[3] Class Delivery Method

- 1) Conducting classes using lectures and audio-visual materials for a theoretical understanding of winter sports and skiing history and culture, supplemented with digital media and interactive learning tools.
- 2) Acquisition and evaluation of ski skills through classified groups and practical training at the students' level, utilizing AI-based motion analysis and digital video feedback for skill improvement.
- 3) Assessment of the subjects through discussions and reports, supported by digital platforms that facilitate performance tracking and reflective learning.
- 4) Students' ability to conduct classes can be improved through practical mock instruction, incorporating the use of video recordings and AI-assisted evaluation tools to enhance teaching effectiveness and self-reflection.

- [현장기반 수업 방식] 융복합수업(O), 팀티칭(O), 프로젝트기반(O), 협동학습(O), 플립러닝적용(), 현장전문가초빙(), 현장탐방()

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	65 %	5 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	20 %	0 %	20 %	0 %	0 %	60 %

[4] Grading Policies

Practical skill test (70%) / Mock teaching session and reports (10%) / Attendance and attitude (20%)

Practical skill test:

- 1) Actions taken in the event of a fall, reorientation, and activities to prepare for safety
- 2) Skiing safely on the slopes and making a turn and descend with natural movement based on individual skill levels

Mock teaching and reports:

Conduct mock teaching sessions regarding the problems and solutions following the movement analyses through the student's ski posture and ride and submit the reports.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kim Changsoo	Publisher	Book Lab	Textbook	Beginner Ski Technique by Kim Changsoo	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Kim Donghwan	Publisher	Leader House	Textbook	Ski Lesson by Kim Donghwan	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture) Understanding the history, culture, characteristics, and terms of ski equipment for winter outdoor sports (skiing) Discussion) Choose the right equipment for your level (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Second week	Lecture) Understanding the physical principles of skiing and learning the composition of ski techniques, supported by digital simulations and AI visualization tools to enhance conceptual understanding. Discussion) Understanding gravity, speed, and centrifugal force for skier's balance by analyzing slow-motion skiing videos and using digital drawing tools to trace center of mass and turning angles, helping students infer the effects of physical forces on skiing. (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Third week	Lecture) Safety in Ski Exercise: Cold-related safety / equipment-related safety / fall and stand up / Lift riding-related safety Discussion) Safety rules (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Fourth week	Practical training) Basic skiing techniques (1): Understanding and practicing the basic posture of skiing (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Fifth week	Practical training) Basic skiing techniques (2): Understanding and practicing the basic movement of skiing includes walking, changing direction, skating running, and climbing (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Sixth week	Practical training) Pflug Fahren: Downhill and stop in basic natural position / Maintaining the Pflug Fahren position and adjusting the downhill speed (Pflug sliding) (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Seventh week	Practical training) Snowplow Turn (Pflug Bogen): Understanding the principles of rotational continuity and vertical movement in Pflug sliding and practice (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Eighth week	Mid-term Exam
Ninth week	Practical training) Practicing turns in various ways (pressing the knee from the natural position, scratching the ground, and pushing the heel away) (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
	Practical training) Snowplow Turn (Pflug Bogen and stem turns): Practicing the principles of rotational continuity and vertical movement in snowplow turns and stem turns

Tenth week	(1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Eleventh week	Practical training) Stem turns: Practicing the principles of rotational continuity and vertical movement in stem turns (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Twelfth week	Practical training) Overcoming fear by speed: Perform stem turns on a steep slope and practice by increasing the speed limit little by little (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Thirteenth week	Practical training) Basic parallel turns: Maintaining and practicing the rotation of both skis in parallel from the first half to the second half of the turn (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Fourteenth week	Practical training) Basic short turns: Practice vertical movement and heavier loads to make the turning radius shorter while maintaining the rotation of the two skis parallel (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조 (2) 교육현장이해도 및 교직인적성 함양 (3) 프로젝트 기반, 팀 티칭 기법
Fifteenth week	Practical training and discussion) Analysis of ski motion and identification of problems and solutions using AI-based motion tracking systems and digital video analysis tools to support precise evaluation and feedback. Mock teaching and report: Conduct mock teaching sessions regarding the problems and solutions identified through AI-assisted movement analysis of the student's ski posture and ride, and submit reports incorporating digital feedback data and instructional reflections. (1) 6C 역량 중 지식탐구, 의사소통, 협업인성, 도전창조, 문제해결 (2) 교육현장이해도 및 교직인적성 함양 (3) 디지털 미래소양 강화, 프로젝트 기반, 팀 티칭 기법, 협동학습
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Theory and History of Urban Planning	Course Number	0011140001
Major / School Year	Dept. of Urban Policy and Administration / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 최승준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [28-406: 화(7-8A), 수(2B-3)]		
Office hours	By appointment	Medium of Instruction	EN

[1] Outline / Purpose

This course aims to help students understand the formation and development of cities from historical and theoretical perspectives and to examine the major ideas and spatial structures of urban planning as they have evolved across different periods and regions. It provides a broad overview of the development of urban civilization, ranging from the ancient cities of the Indus Valley Civilization, Greece, and Rome to medieval European and Islamic cities, Renaissance cities, modern industrial cities, contemporary cities, and future cities. The course also explores the urban development of China, Korea, and Japan, moving beyond a Western-centered history of urban planning to compare the formation and characteristics of cities in the East and West. Through this course, students will gain an understanding of the fundamental concepts and historical background of urban planning and develop the basic analytical skills needed to interpret contemporary urban issues.

[2] Course Learning Outcomes

1. Understand the processes of urban formation and development.
2. Understand the spatial structures of urban civilizations and their key urban planning characteristics.
3. Understand the historical contexts of urban planning ideas and institutions.
4. Critically interpret contemporary urban issues and future directions for cities based on historical cases.

[3] Class Delivery Method

The course will be delivered through a combination of regular lectures, e-learning materials, and presentation slides, and will incorporate experiential learning activities such as case-study analysis and field observation. Discussion- and activity-based sessions will also be included, and students are expected to participate actively.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	10 %	10 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	50 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

Attendance - 20%
Exam - 50% (Mid-term 25% / Final 25%)
Individual Assignment - 10%
Final Project - 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Stanley Brunn et al.	Publisher	Pureungil	Textbook	Cities of the World	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	– Ancient East
Second week	– Ancient Greece
Third week	– Ancient Rome
Fourth week	– Medieval European Cities
Fifth week	– Islamic Urban Civilization
Sixth week	– Renaissance Europe
Seventh week	– Central and South America
Eighth week	– Midterm Examination
Ninth week	– North American Cities
Tenth week	– Modern European Cities
Eleventh week	– Urban Development in China
Twelfth week	– Urban Development in Korea
Thirteenth week	– Urban Development in Japan
Fourteenth week	– Final Project Presentations
Fifteenth week	– Final Examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	Individual Assignment: Proposal for Small-Scale Spatial Improvement	submission date	
	purpose	Understanding Urban Space		
	procedure & notice	Select a site, analyze its problems, and propose an improvement plan		
	references	Lecture Materials		
The second assignment	assignment	Group Assignment: Dongincheon as We Imagine It	submission date	
	purpose	Propose ideas for the urban regeneration of Dongincheon		
	procedure & notice	Conduct a field survey to assess existing conditions and propose a master plan		
	references	Lecture Materials		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Public Administration and Governance		Course Number	0002490001		
Major / School Year	Dept. of Urban Policy and Administration	/ 1	completion division / Grade evaluation	/		
Department/Professor	Dept. of Urban Policy and Administration	/ 최혜민	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[28-406:화(4-5A),수(4-5A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Introduction to Public Administration and Governance introduces first-year students to the foundational principles, institutions, and practices of modern public administration, with special attention to the governance of urban societies. The course explores how governments make and implement decisions, deliver public services, and engage citizens in solving collective problems.

[2] Course Learning Outcomes

By the end of this course, students will:

1. Understand and clearly explain key concepts in public administration and governance, including the roles of government, bureaucracy, and public value in democratic societies.
2. Be able to describe the stages of the public policy process—such as agenda setting, formulation, implementation, and evaluation—and identify the main actors involved.
3. Analyze real-world urban public problems by applying basic theories and frameworks from public administration and governance studies.
4. Compare different types of policy tools (e.g., regulation, incentives, public information) and evaluate their effectiveness in addressing specific urban and social issues.
5. Work collaboratively to conduct research on urban policy cases, identify governance challenges, and present their findings in both written and oral forms.

[3] Class Delivery Method

Through lectures, case studies, group activities, and structured debates, students will develop a conceptual understanding of bureaucracy, public policy, organizational behavior, democratic accountability, and citizen participation. The course also emphasizes how these dynamics play out in urban contexts, where governance challenges such as housing, transportation, and sustainability are increasingly complex and urgent.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation and What is public administration and governance? – Understanding public administration and its relevance to urban governance. Distinction between public administration, politics, and business.
Second week	Why Do We Need Government — and Government in Cities? – Explore normative justifications for government: public goods, market failure, collective action. Extend to urban scale: Why do cities need organized government? What are uniquely urban governance challenges?
Third week	Evolution of the Administrative State and paradigm – Historical development of public administration: classical to modern paradigms (NPM, digital governance). – The interdisciplinary nature of public administration
Fourth week	Public Value & the Role of Government – Market failure vs. government failure. What is the “public interest”? – Balancing efficiency, equity, and accountability. The role of government in enhancing urban quality of life.
Fifth week	Local Government and Decentralization
Sixth week	Citizen Participation
Seventh week	Midterm Exam: Case
Eighth week	Public Policy: What is public policy?
Ninth week	Policy Process
Tenth week	Policy Agenda Setting
Eleventh week	Policy Implementation
Twelfth week	Decision Making
Thirteenth week	Technology and Future of Governance
Fourteenth week	Policy Evaluation
Fifteenth week	Urban Policy Research Case Debate
Sixteenth week	Oral Exam

[7] Assignments

The first assignment	assignment	My City Project	submission date	
	purpose			
	procedure & notice	To help students connect public administration and policy design with their lived experience by identifying a local issue, key stakeholders, and responsible administrative actors.		
	references			
The second assignment	assignment	Urban Policy Research Case Debate	submission date	
	purpose			
	procedure & notice	Students analyze and debate real urban policy cases from Korea and around the world		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	GIS and spatial data analysis		Course Number	0006823001		
Major / School Year	Dept. of Urban Policy and Administration	/ 2	completion division / Grade evaluation	/		
Department/Professor	Dept. of Urban Policy and Administration	/ 양옥재	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[28-406:월(8B-9),수(8B-9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

The course aims to equip students with fundamental skills and knowledge in Geographic Information Systems (GIS) and its application in spatial data analysis. Through this course, students will gain proficiency in using GIS software tools, understand key concepts such as vector data, symbology, georeferencing, data editing, and geoprocessing, and learn to apply these concepts to analyze and visualize spatial data. With a blend of theoretical and practical lessons, including hands-on lab sessions and weekly assignments, the course aims to foster not just understanding but also the ability to apply learned concepts in real-world scenarios. The course will also contribute to students' preparation for advanced GIS courses and future roles in urban planning, policy, and other spatial data analysis fields.

[2] Course Learning Outcomes

Upon completion of the course, students will be able to understand and apply the core principles and techniques of Geographic Information Systems (GIS) in the context of spatial data analysis. They will gain proficiency in utilizing GIS software tools. Through a combination of lectures, hands-on labs, and assessments, students will learn to effectively use GIS technology for spatial data analysis.

[3] Class Delivery Method

PPT lecture slides + Lab practice documents

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- This class follows absolute evaluation.
- A+: 95 and above, A0: 90 - 94, B+: 85 - 89, B0: 80 - 84, C+: 75 - 79, C0: 70 - 74, D+: 65 - 69, D0: 60 - 64, F: Below 60
- Exam (40%): The course evaluation will consist of two components: a midterm exam (10%) and a final exam (30%). During the semester, students will develop a term paper that proposes a research topic, outlines data collection and analysis, and suggests policy implications based on their findings using QGIS software.
- Attendance (20%): Out of a maximum of 20 points (학칙시행세칙 제56조 제2항) → For general subjects (3 credits), 1/3 point will be deducted for every 1 hour of absence → 1 point will be deducted for 3 hours of absence. Students who miss more than one-third of the actual class hours or engage in academic dishonesty will not be granted course credits, regardless of their exam scores or other grades (학생시행세칙 제56조 제3항).
- Assignment (30%): Students will report lab assignments every week. Every assignment is due before Wednesday class.
- Participation (10%): Participation score will be graded by peers in your group. This is to prevent free riders.
- Extra credits will be granted when conducting and submitting extra lab sessions.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	이희연, 심재현	Publisher	법문사	Textbook	지리정보학 이론과 실습	Issued year	2011

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Week 01: Introduction to GIS • Lecture – Definition of GIS: From Digital Mapping to Spatial Data Science – Why Spatial Literacy Matters in Urban Policy and Administration – Required Functions and Multi-disciplinary Nature of GIS • Lab #1: Getting Started with QGIS Software - o Installing QGIS - o Getting used to QGIS GUI - o Download sample data and open it on the QGIS
Second week	Week 02: GIS Data Types and Its Applications • Lecture - o GIS data types: vector versus raster data - o Browsing GIS open data sources in Korea - o GIS applications in urban planning - o Benefits, challenges, limitations, and future of GIS - o Good project topics in urban analytics using GIS • Lab #2: Loading GIS data – Getting shapefile data (vector data, raster data) – Importing spreadsheets or CSV files – Searching and downloading OpenStreetMap data – Quick OSM
Third week	Week 03: Spatial data and coordinate system • Lecture – Spatial data – Coordinate system and projections – Transforming tabular data into spatial data • Lab #3: Coordinate systems, projections, reprojection CRS
Fourth week	Week 04: Spatial Data Processing I • Lecture – Table joins – Spatial joins • Lab #4. Spatial Data Processing I
Fifth week	Week 05: Spatial Data Processing II • Lecture – Spatial data aggregation – Advanced spatial joins (e.g., distance-based joins) • Lab #5. Spatial Data Processing II
Sixth week	Week 06: Geoprocessing tools • Lecture – Vector geometry: Buffer, Centroids, Dissolve – Vector overlay: Clip, Difference, Extract/clip by extent, Intersection – Vector selection: Vector selection tools • Lab #6. Practicing geoprocessing tools in QGIS
Seventh week	Week 07: Map Elements and Symbology • Lecture • Common elements of a map • Map title, map body, legend, north arrow, scale bar, acknowledgment, and map border • Lab #7: Symbolizing features based on attribute values
Eighth week	Week 08: Mid-term exam • Presenting term project proposal • Submit a project proposal as per the instructions in the file • The proposal will be documented in one or two pages, including the title, background, literature gap, objective, data collection plan, methods, results, and what to expect from the results.
Ninth week	Week 09: AI-Assisted Spatial Data Science
Tenth week	Week 10: Map Design I • Lecture – Map Layout and Charts – Create your first GIS map – Add basic map elements to a map layout (title, scale, north arrow, descriptive text) – Add advanced map elements (map grid and overview map)

	Lab #8: Designing, Critiquing, and Revising a Map
Eleventh week	Week 11: Map Design II - Lecture – Create charts from spatial data – Format and analyze GIS charts - Lab #9: Designing, Critiquing, and Revising a Map
Twelfth week	Week 12: Network Analysis - Lecture – Network analysis (Basic Network Visualization and Routing, Locating the Nearest Facility with Origin–Destination Matrix, Service Area Analysis using Open route service, Travel Time Analysis with Uber Movement) – Layer tools: Export layer information, Export to the spreadsheet, Extract layer extent - Lab #10: Network analysis
Thirteenth week	Week 13: Spatial Analysis I - Lecture – K-means clustering – Nearest neighbor analysis – Proximate analysis – Overlap analysis – Interpolation - Lab #11: Advanced Spatial Analysis in QGIS I
Fourteenth week	Week 14: Spatial Analysis II - Lecture – Spatial pattern analysis – Spatial regression – Hotspot analysis – Spatial autocorrelation - Lab #12: Advanced Spatial Analysis in QGIS II
Fifteenth week	Final exam (Project presentation)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Theories and Practices of Organizational Management	Course Number	0001593001
Major / School Year	Dept. of Urban Policy and Administration / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 최혜민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[28-406:수(7-8A),목(7-8A)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

This course provides an in-depth exploration of the foundational theories and real-world practices of organizational management in the public and urban sectors. Students will examine how organizations—particularly public agencies and city governments—are structured, led, and transformed in response to complex societal and urban challenges.

[2] Course Learning Outcomes

The course combines classical and modern organizational theory with practical case studies from urban governance. Students will engage with topics such as bureaucracy, leadership, motivation, organizational culture, collaboration, and innovation. Special attention is given to how urban public organizations adapt to technological change, citizen demands, and inter-organizational networks.

[3] Class Delivery Method

By the end of the course, students will be able to critically analyze how organizations operate and make informed decisions about how to manage or improve organizational performance in the public and urban context.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	뜨는 도시 지는 국가 : 지구를 살리고 사람이 행복한 도시 혁명	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Public Organization and Management 조직유형 공공조직: 조달청 사례
Second week	Understanding the Study of Public Organizations Org Review Introduction
Third week	Environment of Public Organizations Org Review #1
Fourth week	Organizational structure and culture 행천소세미나-조직:연구원 서울연구원 (전문가초청)
Fifth week	Understanding People in Public Organizations: Motivation and Motivation Theory Org Review #2
Sixth week	Values, Incentives, and Work-related Attitudes 행천소세미나-조직:공공기관 한국자산관리공사 (전문가 초청)
Seventh week	Midterm-Written Report
Eighth week	Conflict and Leadership 행천소세미나-조직:지방정부 인천광역시청 (전문가 초청)
Ninth week	Understanding People in Public Organizations: Motivation and Motivation Theory
Tenth week	AI and Communication Org Review #3 행천소세미나-조직:민간분야 스타트업 (전문가 초청)
Eleventh week	과제: Team Building Day
Twelfth week	Group Report #1 Public Organization Case
Thirteenth week	Group Report #2 Public Organization Case
Fourteenth week	Group Report #3 Public Organization Case 행천소세미나-조직 NGO: 시라큐스대학교 (해외전문가초청)
Fifteenth week	Oral Exam
Sixteenth week	Oral Exam

[7] Assignments

The first assignment	assignment	Public Organization Case	submission date	
	purpose			
	procedure & notice	Choose one public organization (national or local, Korean or international) that you are interested in.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Data Science for Urban Scientists	Course Number	0010505001
Major / School Year	Dept. of Urban Policy and Administration / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 양옥재	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [28-405:월(2B-3), 화(2B-3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course introduces students to data science techniques for urban spatial and big data analysis. In this class, we will focus on three parts: urban big data, statistical analysis, and machine learning. This course will teach students how to harness the power of big data by mastering the way they are collected, organized, and analyzed to support better decision-making in an urban planning context. Students will learn the basic tools needed to manipulate large datasets derived from various open-data platforms, from data collection to storage and approaches to analysis. In addition, students will learn how to use various data analytic tools R to clean, wrangle, analyze, and visualize data. The course will also expose students to statistical programming with R and introduce them to basic machine learning and deep learning techniques.

[2] Course Learning Outcomes

The course aims to develop students' fundamental knowledge and skills in urban data science using R programming. After successful completion of this course, students will be able to:

- 1) Understand and learn how to process urban spatial and big data
- 2) Describe important theories and concepts in the analysis and modeling of urban spatial big data
- 3) Understand the role of AI and machine learning in urban data analytics
- 4) Critically review real-world applications of urban data science
- 5) The ability to deal with R programming is not a prerequisite for this class. Beyond the content covered in the class, the instructor recommends that students put more effort into becoming familiar with R coding, especially "tidyverse" package. Students do not need to memorize all of the R coding syntax, but they should understand and memorize the key R coding syntax that is repeatedly used in the class.

[3] Class Delivery Method

PPT lecture slides + Lab documents

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Week 01. Introduction to Urban Data Science • Basics of urban data science • What urban data science deals with – urban issues • Lab #1: Basics of R programming – Installing R and RStudio – The R console – R scripts and comments – R studio IDE (integrated development environment)
Second week	Week 02. R Coding Basics • Libraries in R • R coding basics • Data types and structure in R • Lab #2: R coding basics practice – dplyr package in R
Third week	Week 03. Urban Big Data and Spatial Data • Definition of Urban Big Data • Big data in urban planning • Examples of Urban data science • Good project topics in urban analytics using R • Lab #3: Urban data processing – Importing/exporting data – Spatial data, coordinate reference systems and transforming CRS – Mapping Data
Fourth week	Week 04. Data Cleaning • Data cleaning definition • Importance of data cleaning • Data cleaning techniques • Lab #4. Data cleaning with R – Dealing with missing data – Strings and recoding variables – References: Edwin de Jonge and Markvander Loo (2013).
Fifth week	Week 05. Data Wrangling • Data wrangling definition • Importance of data wrangling • Data wrangling process • Lab #5. Data wrangling with R – Subsetting data – Data classes – Reshaping data (wide <-> long) – Spatial data wrangling – References: Boehmke, B. C., (2016).
Sixth week	Week 06. Urban Data Visualization • Geometric operation • Spatial data join • Spatial apportionment • Lab #6. Spatial data processing in R
Seventh week	Week 07. Spatial Data Processing • Creating graphs (Univariate/ Bivariate/ Multivariate graphs) • Spatial data mapping • Statistical models visualization (bar chart, scatter plot, bubble chart, box plot, heatmap, and etc) • Lab #7. Data visualization in R – Reference: Kabacoff, R. (2024).
Eighth week	Week 08. Mid-term • Term project proposal presentation • Submit a project proposal as per the instructions in the file • The research proposal will be presented by students, including the title, background, literature gap, objective, data collection plan, methods, results, and what to expect from the results
Ninth week	Week 09. Exploratory data analysis (EDA) • What is EDA? • Types of EDA: non-graphical vs graphical / univariate vs multivariate • Summary statistics: central tendency, dispersion, outliers • Correlation analysis: identifying relationships between variables using correlation matrices and scatterplots • Visualization tools: histograms, boxplots, pair plots, correlation heatmaps • Lab #8. EDA with R

Tenth week	Week 10. Inferential Statistics - Fisher's exact test, Chi-square test, t-test, Analysis of variance test - Correlation test - Lab #9. Inferential statistics with R
Eleventh week	Week 11. Regression Analysis 1 - Linear Regression - Logistic Regression - Lab #10. Regression analysis 1 with R
Twelfth week	Week 12. Regression Analysis 2 - Model prediction - Centering, scaling, transformation - Dummy variables, interaction terms - Lab #11. Regression analysis 2 with R
Thirteenth week	Week 13. Generalized Linear Model - Poisson/Negative binomial Regression - Multinomial Regression - Lab #12. GLM in R
Fourteenth week	Week 14. Generative AI for Urban Analytics - Introduction to Generative AI and Large Language Models (LLMs) - AI-assisted Programming and Data Analysis - Urban Applications of LLMs and Vision AI - Lab #14. AI-assisted Urban Analytics using Google Colab (Python)
Fifteenth week	Week 15. Term project presentation - Term project final presentation - Submit a final research outcome as per the instructions in the file
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Land Use Planning and Practices	Course Number	0010504001
Major / School Year	Dept. of Urban Policy and Administration / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 최승준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[28-405:수(7-8A),목(7-8A)]
Office hours	By appointment	Medium of Instruction	EN

[1] Outline / Purpose

This course aims to comprehensively cultivate data-driven, practical master planning capabilities based on the core theories of urban design and land use planning. Students will comprehensively interpret the target site by engaging in systematic practical exercises, including quantitative suitability analysis and micro-scale landscape analysis using spatial data. Based on the objective indicators derived from this process, students will conceptualize practical land use alternatives and develop them into physical spatial designs, thereby fostering rational, evidence-based, and integrated urban design skills. Please keep in mind that this is a planning practicum, and active participation is expected during studio and lab sessions.

[2] Course Learning Outcomes

1. Understand the core theories of land use planning and spatial structure.
2. Acquire quantitative analysis techniques using spatial data and landscape indicators.
3. Cultivate practical skills in designing scenario-based land use alternatives.
4. Master the comprehensive master planning process and strengthen overall design capabilities.

[3] Class Delivery Method

This course is conducted through regular lectures, e-learning modules, and slide presentations, incorporating experiential learning such as real-world case studies and field observations. It also features discussion- and activity-based sessions, requiring active student participation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	0 %	40 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	40 %	0 %	20 %	0 %	0 %	20 %

[4] Grading Policies

- Attendance: 20%
- Mid-term: 30%
- Lab: 10%
- Final Project: 40%

① Percentage of grade evaluation

Exam	Attendance	Assignment
30 %	20 %	50 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kim et al.	Publisher	Elsevier	Textbook	Public Places-Urban Spaces: The Dimensions of Urban Design	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	David Sim	Publisher	Charming City	Textbook	Soft City	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	– Contemporary Land Use Planning
Second week	– Context of Land Use
Third week	– Dimensions of Land Use
Fourth week	– Recovery of Human Scale
Fifth week	– Site Suitability Analysis
Sixth week	– Urban Landscape Analysis
Seventh week	– Midterm Presentation
Eighth week	– Midterm Examination
Ninth week	– Site Assessment
Tenth week	– Functions of Spatial Structure
Eleventh week	– Conceptualization of Spatial Structure
Twelfth week	– Evaluation of Spatial Structure
Thirteenth week	– Future Land Use Planning
Fourteenth week	– Studio Workshop
Fifteenth week	– Final Poster Presentation and Submission
Sixteenth week	

[7] Assignments

The first assignment	assignment	Group Assignment: Songdo District Master Plan	submission date	
	purpose	Practice in urban land use plan-making		
	procedure & notice	Select a site, analyze existing problems, and propose an improvement plan		
	references	Class materials		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ADVANCED DIFFERENTIAL EQUATION		Course Number	EPD6127001			
Major / School Year	Dept. of Civil and Environmental Engineering / 2		completion division / Grade evaluation	/			
Department/Professor	/		Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[08-337:금(7)(8)(9)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	MECHANICS OF MATERIALS	Course Number	EPD6089001
Major / School Year	Dept. of Civil and Environmental Engineering / 2	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 심형보	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[08-337:월(2)(3),화(2)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

The subjects in this course include the fundamenemtal concepts as stresses, deformations/strains, and their relationship, which are basically required for the analysis and design of structural members subjected to tension, comprrseeion, torsion, and bending.

[2] Course Learning Outcomes

This course aims to provide students with the concepts of statics and mechanics of materials, which is basically required for the analysis and design of civil infrastructures.

[3] Class Delivery Method

After covering the theory of each subject in class, some examples as well as assignments will be provided to help students practice and deepen their understanding. Assignments will normally be provided each week and due the following week in class (unless otherwise noted).

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Ferdinand P. Beer et al.	Publisher	McGraw-Hill Education	Textbook	Statics and Mechanics of Materials	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	James M. Gere et al.	Publisher	CENGAGE Learning	Textbook	Mechanics of Materials (Brief Edition)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Concept of stress
Third week	Concept of stress
Fourth week	Stress and strain – axial load
Fifth week	Stress and strain – axial load
Sixth week	Pure bending
Seventh week	Pure bending
Eighth week	Midterm exam
Ninth week	Analysis and design for beams
Tenth week	Analysis and design for beams
Eleventh week	Shear stress
Twelfth week	Transformation of stresses
Thirteenth week	Transformation of stresses
Fourteenth week	Deflection of beams
Fifteenth week	Deflection of beams
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	STRUCTURAL MECHANICS(2)	Course Number	EPD6018001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 이현우	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number	A weekday / class / lecture room		[08-337:금(1)(2)(3)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

This course provides students with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames.

[2] Course Learning Outcomes

Analysis of Statically Determinate Structures

[3] Class Delivery Method

The course will proceed by the textbook.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	R.C.Hibbeler	Publisher	Prentice Hall	Textbook	Structural Analysis	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Chapter 8.1
Second week	Chapter 8.2
Third week	Chapter 8.3
Fourth week	Chapter 9.1
Fifth week	Chapter 9.1
Sixth week	Chapter 9.2
Seventh week	Chapter 9.3
Eighth week	Midterm exam
Ninth week	Chapter 10.1
Tenth week	Chapter 10.2
Eleventh week	Chapter 10.3
Twelfth week	Chapter 11.1
Thirteenth week	Chapter 11.2
Fourteenth week	Chapter 11.3
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	DESIGN OF STEEL STRUCTURES	Course Number	EPD6003001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 심형보	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358085	A weekday / class / lecture room	[08-337: 화(8)(9), 수(2)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course covers the behavior and design of steel structures.

[2] Course Learning Outcomes

1. To understand the analysis and design of steel structures under various loads.
2. To understand the background required to design structural steel elements and connections.

[3] Class Delivery Method

After covering the theory of each subject in class, some examples as well as assignments will be provided to help students practice and deepen their understanding. Assignments will normally be provided each week and due the following week in class (unless otherwise noted).

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	To be announced in class	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Introduction
Third week	Concepts in structural steel design
Fourth week	Tension members
Fifth week	Tension members
Sixth week	Compression members
Seventh week	Compression members
Eighth week	Midterm exam
Ninth week	Beams
Tenth week	Beams
Eleventh week	Beams
Twelfth week	Connection design (welds and bolts)
Thirteenth week	Connection design (welds and bolts)
Fourteenth week	Connection design (welds and bolts)
Fifteenth week	Final-exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Reinforced Concrete Engineering and Design2	Course Number	0011204001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 이승정	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358467	A weekday / class / lecture room	[08-434: 화(5), 수(5)(6)]
Office hours	anytime but, by appointment	Medium of Instruction	EN

[1] Outline / Purpose

Reinforced concrete is ubiquitous in civil infrastructures. As the second part of the reinforced concrete lecture provided in the department, we discuss the mechanics and the experimental data of reinforced concrete structures under torsion and compression combined with bending. Based on the discussion, we learn how to design the reinforced concrete structures subjected to various loading conditions. The major concern of the class is the design process but the detailed mechanical background of all the subjects discussed here will be given. The prerequisite for this class includes 'statics', 'mechanics of materials', 'structural analysis' and 'reinforced concrete engineering and design1'.

[2] Course Learning Outcomes

Learn how to design reinforced concrete structures such as beams, slab, and column, etc.
Learn design method about reinforced concrete structures and apply to real structure design.

[3] Class Delivery Method

Lectures will be given in this class using slides and blackboard. Exercise problems related to the practical design are also considered in this class. Exercise problems in the text book are chosen for homework assignment.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	0 %	20 %

[4] Grading Policies

Midterm exam (30%), final exam (30%), assignment (20%), attendance (20%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J.K. Wight, J.G. Macgregor	Publisher	Pearson	Textbook	Reinforced concrete: mechanics and design (dont have to buy)	Issued year	2016
(2)	Author	Young-Soo Yoon, Juha Lee	Publisher	CIR	Textbook	Mechanics & design of reinforced concrete (5th edition) (written in Korean)	Issued year	2022
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and Review of Bending and Shear Design1
Second week	Review of Bending and Shear Design2
Third week	Review of Bending and Shear Design3
Fourth week	Bond Development1
Fifth week	Bond Development2
Sixth week	Compression Combined with Bending: Column1
Seventh week	Compression Combined with Bending: Column2
Eighth week	Midterm
Ninth week	Torsion1
Tenth week	Torsion2
Eleventh week	Serviceability1
Twelfth week	Serviceability2
Thirteenth week	Slab
Fourteenth week	Footing
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENVIRONMENTAL HYDRAULICS	Course Number	EPD6108001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 변성준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-434:월(1)(2)(3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course offers an in-depth study of the physical principles governing water movement and distribution in natural and engineered environments. Emphasis is placed on fluid behavior under static and dynamic conditions, with topics including hydrostatics, flow mechanics, open channel processes, and sediment transport phenomena. Through this course, students will develop analytical skills and practical techniques for addressing a wide range of hydraulic challenges. The curriculum is tailored for those aiming to build expertise in the field of water resources and environmental hydraulics.

[2] Course Learning Outcomes

– Grasp Fundamental Concepts of Fluid Flow

Students will build a solid understanding of the essential principles that govern the behavior of fluids in hydraulic systems.

– Interpret Flow Equations in Practical Contexts

Learners will develop the ability to connect theoretical flow equations with real-world fluid behavior, enhancing their problem-solving capacity in hydraulics.

– Classify Flow Regimes in Water Systems

The course will enable students to distinguish among various flow types encountered in different hydraulic conditions and settings.

– Explore Sediment Dynamics in Open Channels

Participants will investigate the mechanisms of sediment transport in open channel environments, focusing on both theoretical frameworks and engineering relevance.

– Utilize HEC-RAS for Engineering Analysis

Students will gain hands-on experience with HEC-RAS software to perform steady-state flow simulations, applying theoretical insights to practical hydraulic design scenarios.

[3] Class Delivery Method

The course will be delivered through a blended format that integrates conceptual lectures with collaborative discussion sessions, encouraging critical engagement with the subject matter. To reinforce learning, students will also engage in computer-based modeling and applied problem-solving exercises that connect theoretical principles to practical, real-world applications.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	B.H. Jeon, et. al.	Publisher		Textbook	hydraulics	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course instructions and short review
Second week	Fluid dynamics (Review of Hydraulics)
Third week	Open channel hydraulics part 1. (uniform and non-uniform flow, forces, and the best hydraulic cross-section)
Fourth week	Open channel hydraulics part 2. (specific energy and critical depth), Froude number and state of flow and critical slope)
Fifth week	Open channel hydraulics part 3. (specific force, definition of hydraulic jump, determining the length and location of hydraulic jump)
Sixth week	Open channel hydraulics part 4. (backwater curve and classification of flow profiles)
Seventh week	Open channel hydraulics part 5. (computation of flow profiles in gradually varied flows)
Eighth week	Mid-term Exam.
Ninth week	– resistance to flow – the boundary layer theory
Tenth week	Flow measurements
Eleventh week	Sediment transport and properties of sediment particles
Twelfth week	Suspended load and bed load Groundwater, Darcy's law and permeability coefficient
Thirteenth week	Practice of HEC-RAS (River simulations)(1)
Fourteenth week	Practice of HEC-RAS (River simulations)(2)
Fifteenth week	Final-term Test
Sixteenth week	

[7] Assignments

The first assignment	assignment	simple team project	submission date	
	purpose	easy team work		
	procedure & notice			
	references			
The second assignment	assignment	simple problems solve	submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CAPSTONE DESIGN		Course Number	EPD6126001		
Major / School Year	Dept. of Civil and Environmental Engineering	/ 4	completion division / Grade evaluation	/		
Department/Professor	School of Urban and Environmental Engineering	/ 허종완	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room		[09~114:수(1)(2),목(1)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

종합적 과정으로 팀워크를 구성하고, 1학년부터 4학년 1학기까지 습득한 건설환경공학 관련 모든 내용을 하나의 창의적 프로젝트로 구성하여 설계 및 제작하게 한다. 또한 이러한 과정을 3차에 걸쳐 설계 목적, 설계의 당위성 및 진행과정 등을 발표하게 함으로써 팀워크 능력 배양과 구두 발표 능력을 향상한다. 그리고 최종적으로 보고서를 작성토록 함으로써, 보고서 작성능력을 향상한다.

[2] Course Learning Outcomes

건설환경공학전공에서 배운 지식을 바탕으로 학생들이 창의적으로 설계하여 분석하고, 제작하여 시험하는 공학적 설계 전과정을 거치면서 산업 현장에서 필요한 설계 프로세스를 경험한다. 주어진 목표를 달성하기 위한 다양한 방법들을 개발하고, 토론하는 과정에서 팀워크 능력도 습득하게 된다. 또한 발표 기술을 습득하여, 본인들의 구상을 상대방에게 효율적으로 전달하는 능력도 배양하게 된다.

[3] Class Delivery Method

강의방식과 토론형식 및 발표형식을 포함하여 진행한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	김경천 외 7인	Publisher	시그마 프레스	Textbook	창의적 공학설계	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	조문수 외 3인	Publisher	ITC	Textbook	공학설계입문	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to capstone design Course outlines
Second week	Understandings of capstone design Developing project ideas
Third week	Forming project team groups
Fourth week	Steps and processes of capstone design
Fifth week	Project scheduling Professional ethics
Sixth week	Kick-off presentation of capstone design project by each team group
Seventh week	Technics and methods of producing technical papers
Eighth week	Goal setting and building up check-list of each capstone design project
Ninth week	Problem identification and solution process establishment for each capstone design project
Tenth week	Interim presentation of capstone design project by each team group
Eleventh week	Interviews with each capstone design project group I
Twelfth week	Interviews with each capstone design project group II
Thirteenth week	Interviews with each capstone design project group III
Fourteenth week	Final presentation of capstone design project by each team group
Fifteenth week	Final presentation of capstone design project by each team group
Sixteenth week	Submit final reports

[7] Assignments

The first assignment	assignment	과제 계획 발표	submission date	2025-09-22 Mon
	purpose	과제를 계획하고 제안할 수 있다.		
	procedure & notice	조별 과제 계획의 선정 배경, 진행 계획, 방법론 등을 발표		
	references	주교재		
The second assignment	assignment	과제 중간 발표	submission date	2025-10-20 Mon
	purpose	팀의 구성원으로서 역할을 수행하고 효과적인 의사전달을 할 수 있다.		
	procedure & notice	조별 과제의 중간 진행 상황을 방법론과 자료 수집 현황 및 분석 내용을 중심으로 발표		
	references	주교재		
The third assignment	assignment	과제 최종 발표	submission date	2025-12-08 Mon
	purpose	현실적인 제한요소를 반영하여 시스템을 설계하고 문제점을 발견 및 해결할 수 있다.		
	procedure & notice	최종 설계된 내용을 중심으로 결과와 결과의 해석, 결과의 활용 및 한계 등을 중심으로 발표		
	references	주교재		

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CAPSTONE DESIGN		Course Number	EPD6126004		
Major / School Year	Dept. of Civil and Environmental Engineering	/ 4	completion division / Grade evaluation	/		
Department/Professor	School of Urban and Environmental Engineering	/ 우상인	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[09-123:수(1)(2),목(9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course is designed for third- and fourth-year students to integrate and apply knowledge from major areas of civil and environmental engineering through a team-based project. Students will develop an innovative infrastructure design, propose an engineering solution to a social problem, or conduct experimental or numerical research. The course aims to strengthen students' problem-solving, teamwork, project management, and technical communication skills.

[2] Course Learning Outcomes

- * Integrate civil and environmental engineering knowledge
- * Define and solve practical engineering problems
- * Conduct design, experiments, or numerical analyses
- * Work effectively in a project team
- * Analyze and evaluate project results
- * Communicate technical outcomes through reports and presentations.

[3] Class Delivery Method

Team-based project learning supported by regular instructor consultation, progress reviews, and feedback.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	50 %	0 %	0 %	0 %	0 %	0 %	50 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	100 %

[4] Grading Policies

- Evaluation portions
 - o Attendance: 20%
 - o Attitude: 10%
 - o Presentations 70%
 - Mid-Presentation #1: 20%
 - Mid-Presentation #2: 20%
 - Final Presentation: 30%
- Attendance (20%)
 - o Attendance section has total 20 points following the university regulation 56-2
 - o 3 absences = 1-point deduction
 - o If the absent hours are equal to or greater than 1/3 of total class hours, a student will fail in this class following the university regulation 56-3
- Presentations (70%)
 - o Mid-Presentation #1 (20%): Introduction - background, main objectives and blueprint
 - o Mid-Presentation #2 (20%): Main Body - methodologies, design representations, and implementation
 - o Final Presentation (30%): Introduction, Main Body, and Conclusions
- Attitude (10%)
 - o Dress code will be enforced for safety reasons in the lab
 - Bottom must cover your low body starting your ankle
 - No sleeveless top is allowed in the class
 - You need to cover your body as much as possible
 - You will get 1% deduction if you won't keep the dress code
 - o No running, throwing, and mischief in the lap
 - Or you will get 1% deduction

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	서지영	Publisher	길벗	Textbook	누구나 쉽게 시작하는 인공지능 수학 학 모두의 인공지능 기초 수학	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation Team Project
Second week	Team Project
Third week	Team Project
Fourth week	Team Project
Fifth week	Mid Presentation #1
Sixth week	Team Project
Seventh week	Team Project
Eighth week	Team Project
Ninth week	Team Project
Tenth week	Mid Presentation #2
Eleventh week	Team Project
Twelfth week	Team Project
Thirteenth week	Team Project
Fourteenth week	Team Project
Fifteenth week	Final Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The second assignment			date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CAPSTONE DESIGN		Course Number	EPD6126003		
Major / School Year	Dept. of Civil and Environmental Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	School of Urban and Environmental Engineering /		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	0328358085	A weekday / class / lecture room	[08-220: 화(5), 수(1)(2)]			
Office hours	Mon. 09:00 ~ 18:00		Medium of Instruction	EN		

[1] Outline / Purpose

Students will be able to develop the ability to design a creative project of civil & environment engineering. Students are required to submit a term paper in English by performing a team project, and the professor provides in-depth study about the major field. In addition, students will be able to improve their teamwork and oral presentation skills by presenting their activities for design and research results.

[2] Course Learning Outcomes

Based on the knowledge learned in civil and environmental engineering, students will experience the necessary design process in the industrial field through the whole process of engineering, designing, analyzing, producing and testing creatively.

Teamwork skills for students will be improved in the process of discussing various ways to achieve a given goal. Also, students acquire presentation and communication skills with various research activities and team work.

[3] Class Delivery Method

Lecture, Discussion and Presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	10 %	20 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	30 %	0 %	10 %	0 %	50 %	10 %

[4] Grading Policies

Attendance(20%), 1st presentation(10%), Intermediate presentation(20%), Final presentation(40%), Final assignment(10%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to capstone design Course outlines
Second week	Understandings of capstone design Developing project ideas
Third week	Forming project team groups
Fourth week	Steps and processes of capstone design
Fifth week	Project scheduling Professional ethics
Sixth week	Kick-off presentation of capstone design project by each team group
Seventh week	Technics and methods of producing technical papers
Eighth week	Goal setting and building up check-list of each capstone design project
Ninth week	Problem identification and solution process establishment for each capstone design project
Tenth week	Interim presentation of capstone design project by each team group
Eleventh week	Interviews with each capstone design project group I
Twelfth week	Interviews with each capstone design project group II
Thirteenth week	Interviews with each capstone design project group III
Fourteenth week	Final presentation of capstone design project by each team group
Fifteenth week	Final presentation of capstone design project by each team group
Sixteenth week	Submit final reports

[7] Assignments

The first assignment	assignment	Establishment of Research Plan (First Presentation)	submission date	2025-10-13 Mon
	purpose	Plan and propose the tasks		
	procedure & notice	resentation of research background, plan, methodology		
	references			
	assignment	Progress of Team Research (intermediate Presentation)	submission date	2025-11-17 Mon

The second assignment	purpose	Act as a team member and communicate effectively		
	procedure & notice	Presenting the middle progress of group work with methodology, data collection status and analysis contents		
	references			
The third assignment	assignment	Final Report Submission and Presentation	submission date	2025-12-08 Mon
	purpose	Design systems to reflect realistic constraints, find and fix the problems		
	procedure & notice	Announces the interpretation, utilization and limitations of the results based on the final design content		
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CAPSTONE DESIGN		Course Number	EPD6126002		
Major / School Year	Dept. of Civil and Environmental Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	School of Urban and Environmental Engineering / 강상혁		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[08-123:월(9),수(1)(2)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

본 교과목은 4학년 학생이 그동안 학습한 전공 지식을 종합하여 건설환경 분야의 문제를 스스로 발굴하고 해결하는 종합설계 과목이다. 이를 활용한 주제를 권장하되 필수 요건은 아니며, 팀별로 관심 주제를 자유롭게 제안하여 한 학기 동안 조사·분석을 수행하고 그 결과를 논문 형식의 성과물로 완성함으로써 연구 수행 역량을 기른다.

[2] Course Learning Outcomes

첫째, 전공 분야의 문제를 연구 주제로 스스로 정의한다. 둘째, 문헌조사와 데이터 기반 분석을 통해 해결 방안을 설계하고 검증한다. 셋째, 수행 결과를 논문과 발표로 논리적으로 전달한다. 넷째, 팀 협업과 일정 관리를 통해 프로젝트를 완결하는 능력을 갖춘다.

[3] Class Delivery Method

팀 단위로 운영하며, 주 3시간을 주제 지도, 자율 연구, 발표에 배분한다. 1~3주 주제 제안 및 승인, 4~7주 문헌조사와 방법론 설계, 8주 중간발표, 9~13주 연구 수행 및 보완, 14주 최종발표를 거쳐 15주에 최종 논문을 제출한다. 교수는 팀별 정기 상담으로 진행 상황을 점검하며, 중간·최종 발표는 평가위원 심사로 운영한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	과목 개요
Second week	주제 발굴 및 제안 1
Third week	주제 발굴 및 제안 2
Fourth week	문헌조사 및 방법론 설계 1
Fifth week	문헌조사 및 방법론 설계 2
Sixth week	문헌조사 및 방법론 설계 3
Seventh week	문헌조사 및 방법론 설계 4
Eighth week	중간발표
Ninth week	연구 수행 및 보완 1
Tenth week	연구 수행 및 보완 2
Eleventh week	연구 수행 및 보완 3
Twelfth week	연구 수행 및 보완 4
Thirteenth week	연구 수행 및 보완 5
Fourteenth week	최종 발표
Fifteenth week	논문 제출
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Smart Structural Analysis	Course Number	0011206001
Major / School Year	Dept. of Civil and Environmental Engineering / 4	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 이현우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [08-434: 화(7)(8)(9)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

Introduction and Scope

In the previous structural analysis course you learned the basic principles of structural analysis as applied to trusses, beams, and frames. In most cases, you used hand solution techniques. Most of the structures solved were statically determinate. Small statically indeterminate structures were analyzed using the flexibility method (consistent deformations), or the moment distribution method. In some cases, small systems of simultaneous equations were set up and solved to arrive at a solution.

[2] Course Learning Outcomes

Course Objectives

By the end of the semester, you should be able to:

1. Formulate the stiffness matrices of truss, beam, and frame elements.
2. Understand how the principles of virtual work relate to the direct stiffness method of structural analysis.
3. Use the direct stiffness method to find nodal displacements, member forces, and reactions in structural systems.
4. Determine the member forces in a structural system caused by temperature effects or foundation settlement.
5. Model a structure with elastic supports, inclined supports, or member end releases (hinges).
6. Perform a structural analysis of a realistic structure which might be encountered in professional practice.
7. Explain the principles behind automated analysis of structures using large-scale commercial programs (e.g. SAP2000, Abaqus)

[3] Class Delivery Method

The course will proceed by the textbook and computational modeling in the lab.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robert E Sennet	Publisher	지성출판사	Textbook	Matrix Structural Analysis	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	OT
Second week	What is the matrix
Third week	What is the FEM
Fourth week	How to solve Finite element method
Fifth week	2D Bar Element
Sixth week	2D Truss Element
Seventh week	2D Beam Element
Eighth week	Midterm exam
Ninth week	2D Frame
Tenth week	How to use FEM Program
Eleventh week	Basic analysis of ABAQUS
Twelfth week	3D Bar Element with program
Thirteenth week	2D Truss Element with program
Fourteenth week	2D Beam Element with program
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Resource Recovery from Waste	Course Number	0011217001
Major / School Year	Dept. of Environmental Engineering / 3	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 김철용	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [28-307:화(4-5A),목(1-2A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

**This course is an in-depth course for students who have completed "Environmental Chemistry" or equivalent courses and "Solid Waste Management" or equivalent courses.

Resource Recovery from Waste includes the physicochemical and biological processes to recover usefull resources from wastes. Resource recovery is becoming more important nationally and globally because of the needs of circular economy.

[2] Course Learning Outcomes

- Understanding the principles and mechanisms ofphysicochemical and biological resouce recovery processes
- Learning the practice of the resource recovery
- Overviewing the commercial cases

[3] Class Delivery Method

- Lecture using powerpoint slides
- Discussion and presentation (where circumstances allow)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1/3 points per hour absence will be deducted from the attendance point.

Exam = midterm + final + quiz

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gou et al.	Publisher	Wiley	Textbook	Sustainable Resource Management, Volume I: Technologies for Recovery and Reuse of Energy and Waste Materials	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	– Introduction to course – Introduction to resource recovery
Second week	– Landfill gas
Third week	– Anaerobic digestion
Fourth week	– Resource recovery from the wastewater
Fifth week	– Resource recovery from the spent acid and alkali – Resource recovery from the sewage sludge
Sixth week	– Resource recovery from the sewage sludge
Seventh week	– Midterm exam
Eighth week	– Resource recovery from the industrial wastewater sludge
Ninth week	– Spent oils
Tenth week	– Metals in solid waste
Eleventh week	– Metals in solid waste
Twelfth week	– Combustible waste
Thirteenth week	– Combustible waste
Fourteenth week	– Case study (discussion or presentation)
Fifteenth week	– Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Urban GIS		Course Number	0011508001		
Major / School Year	Dept. of Urban Engineering / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Urban Engineering / 권기현		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	0328358781	A weekday / class / lecture room	[27-204:화(5B-6), 수(2B-3)]			
Office hours	Monday (15:00-16:50)		Medium of Instruction	EN		

[1] Outline / Purpose

This course introduces the basic principles and techniques of Geographic Information Systems (GIS) in urban engineering. It focuses on developing hands-on experience with GIS applications in urban planning. The lecture and computer laboratory portions demonstrate representative applications for each discipline area.

[2] Course Learning Outcomes

Students should be able to:

- Understand the theoretical basis of GIS
- Understand coordinate systems, map projections, and their transformations
- Understand geodatabases and their use in information systems
- Manage, edit, and present GIS data and products in professional formats
- Conduct queries, map overlay, geoprocessing, and spatial analysis to solve spatial problems
- Develop skills in using QGIS for planning analysis

[3] Class Delivery Method

The course is 100% in-person, and it consists of lectures and lab sessions.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Andrew Cutts, Anita Graser	Publisher	Packt Publishing	Textbook	Learn QGIS: Your step-by-step guide to the fundamental of QGIS 3.4	Issued year	
(2)	Author	Maribeth H. Price	Publisher	McGraw Hill	Textbook	Mastering ArcGIS Pro 1st Edition	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Intro. lecture (GIS Applications in Urban Engineering)
Second week	Intro. GIS / Managing GIS data (Lab: Intro. Lab session and install QGIS)
Third week	GIS data models (Lab: Intro. Team quiz and final project)
Fourth week	Map projections (Lab: Geocoding)
Fifth week	Coordinate systems (Lab: Coordinate System)
Sixth week	Mapping GIS data (Lab: Multiple maps, data creation)
Seventh week	Presenting GIS data (Lab: Print layout)
Eighth week	Mid-term exam
Ninth week	Attribute data (Lab: Table operations)
Tenth week	Queries / Spatial joins (Lab: Spatial analysis)
Eleventh week	Managing vector data (Lab: Spatial analysis)
Twelfth week	Managing raster data (Lab: Density analysis)
Thirteenth week	Spatial analysis (Lab: Practice #1)
Fourteenth week	Raster analysis (Lab: Practice #2)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Construction Management	Course Number	0005957001
Major / School Year	Major of Architectural Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358479	A weekday / class / lecture room	[28-603:화(7-8A),수(5B-6)]
Office hours	After class hours	Medium of Instruction	EN

[1] Outline / Purpose

This course deals with construction management fundamentals, including the lifecycle of construction projects, delivery and contract methods, and cost, schedule, and quality management. The course aims to enable students to practice basic management techniques for cost, schedule, and quality management based on an understanding of construction organization and team structure.

[2] Course Learning Outcomes

Students are able to (1) describe different types of project delivery and contract methods, (2) make a sound decision of project using the body of knowledge of construction, (3) develop a project schedule and compute the critical path, and (4) link the schedule and cost data to compute the earned value.

[3] Class Delivery Method

The class will be delivered offline basically, but in some situations, online video lectures may be provided. The final exam will be taken off-line.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	0 %	30 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	HanmiGlobal	Publisher	Bomundang	Textbook	Construction Management A to Z (2nd edition)	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	PMI	Publisher	Project Management Institute (PMI)	Textbook	A Guide to the Project Management Body of Knowledge PMBOK Guide	Issued year	2017
(2)	Author	김태완, 박경모	Publisher	서해원	Textbook	건축이궁금한너에게	Issued year	2025
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Understanding Construction Management
Second week	CM & PM Body of Knowledge
Third week	Project Management
Fourth week	Design Management
Fifth week	Time Management
Sixth week	Cost Management
Seventh week	Earned Value Method
Eighth week	Midterm
Ninth week	Quality Management
Tenth week	Safety Management / Risk Management
Eleventh week	Contract Management
Twelfth week	Information & Document Management
Thirteenth week	Future of Construction Management
Fourteenth week	Student presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Calculating critical path	submission date	
	purpose			
	procedure & notice	After Week 5		
	references			
The second assignment	assignment	AI tool development for CM	submission date	
	purpose			
	procedure & notice	After Week 9		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	MECHANICS OF MATERIALS		Course Number	EE06041001		
Major / School Year	Major of Architectural Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Division of Architecture & Urban Design	/ 장정국	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358472	A weekday / class / lecture room	[28-603:월(5B-6),수(7-8A)]			
Office hours	Friday 1-3pm		Medium of Instruction	ES		

[1] Outline / Purpose

This course provides basic theories on the mechanics of structural materials, focusing on the stress, strain and force-deformation relation of deformable bodies.

[2] Course Learning Outcomes

This course aims at developing students' ability to apply basic mechanics theories to structural analysis and design of buildings.

[3] Class Delivery Method

The course will proceed by the textbook.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attend 20%, Midterm-Exam 40%, Final-Exam 40%

a) Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Goodno and Gere	Publisher	Cengage Learning	Textbook	Mechanics of Materials 9th edition	Issued year	2016
(2)	Author		Publisher		Textbook	Handout	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to course
Second week	Tension, Compression and Shear
Third week	Tension, Compression and Shear
Fourth week	Centroids and Moment of Inertia
Fifth week	Axially Loaded Members
Sixth week	Axially Loaded Members
Seventh week	Torsion
Eighth week	Midterm exam
Ninth week	Stresses in Beams
Tenth week	Stresses in Beams
Eleventh week	Deflection of Beams
Twelfth week	Columns
Thirteenth week	Analysis of Stress and Strain
Fourteenth week	Analysis of Stress and Strain
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Smart Construction Technologies	Course Number	0011147001
Major / School Year	Major of Architectural Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 구충완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [27-103:화(5B-6)] [28-603:목(5B-6)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

1. Comprehension of smart construction technologies applied in the construction industry
2. Acquisition of domain-specific knowledge in construction management and engineering through R&DB projects
3. Understanding and development of business plans and project proposals

[2] Course Learning Outcomes

This course provides a comprehensive overview of smart construction technologies and architectural big data analytics, emphasizing their practical applications in the construction industry. This course fosters a deep understanding of domain-specific knowledge in construction management and engineering, cultivated through R&DB project-based learning. Students will also develop the ability to formulate and evaluate business plans and project proposals, preparing them to become proficient professionals capable of leading smart construction initiatives in the industry.

[3] Class Delivery Method

1. Lecture : Theory of smart construction technologies and applications
2. Tutorial : Practice of smart construction technologies and applications
3. Evaluation: Examination (mid-term/final), attendance

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	40 %	10 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

[Evaluation] Group projects

1. Mid-term exam (20%) : Detailed introduction to smart technologies
2. Final exam (60%) : Business plans and project proposals

[Attendance]

1. Deduction of 1 point out of 20 points by absence
2. 3 late arrivals equal to 1 absence

③ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Rubén Rodríguez Elizalde	Publisher	GenerisPublishing	Textbook	Smart Construction Safety: Artificial Intelligence for Risk Prevention and Site Management	Issued year	
(2)	Author	Houtan Jebelli et al.	Publisher	ASCE	Textbook	Digital Twins in Construction and the Built Environment	Issued year	
(3)	Author	Glynn, Frederick & West	Publisher	CRC Press	Textbook	Safety and Wearable Technology: Impact, Applications, and Implementation in Industry	Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	* Topic: Introduction to Smart Construction: Industrial Paradigm Shift and Digital Innovation * Contents: This topic introduces construction process including design, engineering, construction, and O&M, engaging architects, engineers, contractors, CMs, and operators. Managing time, cost, quality, safety, and environmental impact across these fragmented phases remains difficult. Smart construction technologies are now crucial for better coordination, faster decisions, and improved performance in today's increasingly complex projects. * Source: Handout
Second week	* Topic: Transition to Smart Construction in the Era of the Fourth Industrial Revolution (1/2) * Contents: This topic explores how the Fourth Industrial Revolution—characterized by AI, IoT, big data, robotics, and cyber-physical systems—is reshaping the construction industry. It highlights the ongoing transition from labor-intensive practices to data-driven, automated, and intelligent construction processes. The focus is on enabling technologies, new business models, and the strategic integration of smart systems across the construction value chain. * Source: Handout
Third week	* Topic: Transition to Smart Construction in the Era of the Fourth Industrial Revolution (2/2) * Contents: This topic explores how the Fourth Industrial Revolution—characterized by AI, IoT, big data, robotics, and cyber-physical systems—is reshaping the construction industry. It highlights the ongoing transition from labor-intensive practices to data-driven, automated, and intelligent construction processes. The focus is on enabling technologies, new business models, and the strategic integration of smart systems across the construction value chain. * Source: Handout
Fourth week	* Topic: ML-based Prediction and Management of Heat-Related Illnesses in Construction Workers * Contents: This topic explores the use of wearable-free sensor technologies and AI-based models to predict and prevent heat stress among construction workers, especially under extreme weather conditions. It focuses on real-time monitoring, risk classification, and proactive health management strategies. * Source: Handout
Fifth week	* Topic: ML-based Emissions Benchmarks and Vision-based Real-Time Monitoring at Construction Sites * Contents: This topic explores the establishment of standardized carbon emission benchmarks for various construction activities by leveraging historical data, material usage, and equipment types, while also addressing the integration of IoT-based sensors and edge computing platforms for real-time tracking and management of emissions to support sustainable planning and ensure compliance with environmental standards. * Source: Handout
Sixth week	* Topic: Construction Safety Training Using Virtual Reality (VR) * Contents: This topic introduces immersive VR-based safety training methods that simulate high-risk construction environments. It enhances worker awareness, retention, and engagement by providing realistic hazard scenarios in a controlled setting. * Source: Handout
Seventh week	* Topic: IoT-based Intelligent Facility Management Customized for Occupants * Contents: This section focuses on data-driven facility management that adapts to occupant behaviors and environmental conditions. Digital twin technologies and building automation systems are used to enhance comfort, energy efficiency, and personalized control. * Source: Handout
Eighth week	* Topic: Mid-term exam (out of 20) (Topics, Backgrounds, Challenges and Objectives) * Contents: Cumulative scope (2–7 weeks) * Source: Handout
Ninth week	* Topic: Building Information Modeling (BIM) for Integrated Construction Management * Contents: This section introduces BIM as a foundational technology for smart construction. It emphasizes how BIM enables 3D/4D/5D modeling, multidisciplinary collaboration, clash detection, and life-cycle asset management. The focus is on using BIM not only as a design tool but also as a platform for integrated project delivery, scheduling, cost control, and facility management. * Source: Handout
Tenth week	* Topic: Smart Construction Expo (SCX) * Contents: KINTEX (2026.00.00. – 2026.00.00) * Source: Site Visit
Eleventh week	* Topic: Digital Transformation with Construction Robotics and Automation: Strategies and Applications * Contents: This topic addresses the shift from traditional construction practices to digital workflows, driven by technologies such as cloud computing, AI, IoT, and mobile platforms. It highlights how digital transformation improves collaboration, data integration, productivity, and decision-making across the construction lifecycle—from design to maintenance. * Source: Handout
Twelfth week	* Topic: Automated Safety Management Using Vision-Language Models (VLMs) * Contents: This section presents AI-based systems that analyze visual data (e.g., site images, videos) with natural language descriptions to automatically detect and interpret safety violations, enabling real-time alerts and autonomous site inspection. * Source: Handout
Thirteenth week	* Topic: Preparation of semester project seminar & feedback (1) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Fourteenth week	* Topic: Preparation of semester project seminar & feedback (2) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout

Fifteenth week	* Topic: Final exam (out of 60) * Contents: Cumulative scope (2–7, 9–14 weeks) * Source: Handout
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Architectural Data Analytics and Applications	Course Number	0011150001
Major / School Year	Major of Architectural Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 구충완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [27-316:목(7-8A)] [28-607:월(7-8A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

1. Understanding of smart building technologies in the construction industry
2. Understanding of IoT-based bigdata analytics and its applications utilizing Excel-based VBA.
3. Understanding of web-based bigdata analytics and its applications utilizing Python.

[2] Course Learning Outcomes

This course provides a comprehensive overview of architectural bigdata analytics and its applications, utilizing programming languages such as Excel's Visual Basic for Applications (VBA) and Python. As students make their way into the business sector, they will evolve into proficient experts capable of managing projects effectively, equipped with an in-depth knowledge of architectural bigdata analytics and its applications.

[3] Class Delivery Method

1. Lecture : Theory of architectural bigdata analytics and applications
2. Tutorial : Practice of architectural bigdata analytics and applications
3. Evaluation: Examination (mid-term/final), attendance

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	20 %	40 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

[Evaluation] Group projects

1. Mid-term exam (40%) : IoT-based bigdata analytics and its applications utilizing Excel-based VBA
2. Final exam (40%) : Web-based bigdata analytics and its applications utilizing Python

[Attendance]

1. Deduction of 1 point out of 20 points by absence
2. 3 late arrivals equal to 1 absence

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	S. Christian Albright	Publisher	CENGAGE Learning	Textbook	VBA for modelers: Developing Decision Support Systems with Microsoft Office Excel (5th edition)	Issued year	2016
(2)	Author	Park, J.K.	Publisher	Wikibooks	Textbook	Real Estate Data Analysis with Python	Issued year	2019
(3)	Author	Oh, S.H.	Publisher	Information Publishing Group	Textbook	Python - Machine Learning Pandas Data Analytics	Issued year	2019

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	* Topic: Orientation & Architectural Data Analytics and Applications * Contents: Main concept of Architectural Data Analytics and Applications, Real cases of living-lab project management (carbon neutrality at construction site, workers' heat stress, VR-based safety training, occupant-oriented facility management, other cases) * Source: Handout
Second week	* Topic: IoT-based bigdata analytics using excel-based VBA (1) * Contents: (Management) Introduction to excel-based VBA, recording macros, InputBox & MsgBox * Source: Handout
Third week	* Topic: IoT-based bigdata analytics using excel-based VBA (2) * Contents: (Acquisition) Working with Ranges properties, methods, naming, formatting, and tutorial * Source: Handout
Fourth week	* Topic: IoT-based bigdata analytics using excel-based VBA (3) * Contents: (Pre-processing) Control logic If construction, loops – For construction, and tutorial * Source: Handout
Fifth week	* Topic: IoT-based bigdata analytics using excel-based VBA (4) * Contents: (Diagnostics) Rules in Array construction, exercises looking up, keeping track, merging, and tutorial * Source: Handout
Sixth week	* Topic: Preparation of semester project seminar & feedback (1) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Seventh week	* Topic: Preparation of semester project seminar & feedback (2) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Eighth week	* Topic: Mid-term exam (out of 40) * Contents: Cumulative scope (2–7 weeks) * Source: Handout
Ninth week	* Topic: Web-based bigdata analytics using Python (1) * Contents: Python syntax for real estate data analysis (with anaconda and jupyter notebook) * Source: Handout
Tenth week	* Topic: Web-based bigdata analytics using Python (2) * Contents: Applications for dataframe (pandas) and data visualization (seaborn) * Source: Handout
Eleventh week	* Topic: Web-based bigdata analytics using Python (3) * Contents: Applications for open API data (with MOLIT apartment transaction data) * Source: Handout
Twelfth week	* Topic: Web-based bigdata analytics using Python (4) * Contents: Applications for web crawling (selenium, webdriver) (with starbucks store address data) * Source: Handout
Thirteenth week	* Topic: Preparation of semester project seminar & feedback (1) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Fourteenth week	* Topic: Preparation of semester project seminar & feedback (2) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Fifteenth week	* Topic: Final exam (out of 40) * Contents: Cumulative scope (9–14 weeks) * Source: Handout
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Design Studio2	Course Number	0006669002
Major / School Year	Major of Architecture and Urban Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 김한규	Grades/Lecture/ Practice	4 / 0 / 8
Phone Number	A weekday / class / lecture room [28-505:월(6)(7)(8)(9),목(6)(7)(8)(9)]		
Office hours	Medium of Instruction ES		

[1] Outline / Purpose

Design Studio 2 is a foundation-level course within the six-year architectural education program, focusing on the overarching themes of context and architectural programming. The course aims to develop students' ability to design and present spatial and physical environments that foster a diverse range of experiences for children, grounded in a comprehensive understanding of both the place in which a building is situated and the purpose it is intended to serve.

[2] Course Learning Outcomes

This course is designed to establish meaningful connections with both previously completed and concurrently enrolled coursework. It builds upon students' prior knowledge and application of subjects including Architectural CAD, Architectural Materials and Methods, General Structures, and Understanding Spatial Design. The Student Performance Criteria (SPC) addressed in this course are SPC 5: Formal and Spatial Organization and SPC 8: Building Materials and Assemblies. Building on the knowledge of materials and construction methods acquired in the Architectural Materials course, students will investigate the types, properties, and applications of exterior finishing materials. In the final submission, students are required to specify the selected exterior materials on the elevation drawings of their design project and clearly indicate their modules, dimensions, and material characteristics.

[3] Class Delivery Method

This course is divided into two main parts: research and design. It is conducted through various formats, including field trips, lectures, desk critiques, pin-ups, reviews. In the research part, students will analyze the site, study office case studies, and examine relevant regulations, including safety design. Through the analysis of office case studies, students will investigate basic office planning, zoning, structure, MEP (Mechanical, Electrical, and Plumbing), core, and facade systems. In the design part, students will use the research findings to proceed with office design.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Francis D. K. Ching	Publisher	Wiley	Textbook	Architecture: Form, Space, and Order	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	DARCH ETH	Publisher	Birkhauser	Textbook	Constructing Architecture: Materials Processes Structure A Handbook	Issued year	2006
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Studio Introduction – Schedule – Site brief – Architectural programming and site analysis – Kindergarten architecture
Second week	Precedent Studies – Kindergarten architecture – Architectural materials
Third week	Site analysis – Site analysis, building regulation – Physical Site Model (Group) : Scale TBD
Fourth week	Chuseok Holiday Recess
Fifth week	Concept Design (1) – Preliminary program – Preliminary massing
Sixth week	Concept Design (2) – Preliminary program – Preliminary massing
Seventh week	Mid-Review
Eighth week	Concept Design (3) – Massing and space organization
Ninth week	Design Development (1) – Spatial Development – Development of site plan, plans, sections
Tenth week	Design Development (2) – Spatial Development – Development of site plan, plans, sections
Eleventh week	Design Development (3) – Envelope design (fenestration, material) – Development of site plan, plans, sections – Site Model (1:200)
Twelfth week	Design Development (4) – Envelope design (fenestration, material) – Development of the drawing set
Thirteenth week	Design Development (5) – Development of the drawing set
Fourteenth week	Preparation for Final Review – Preparation for the final products – Presentation(PDF), Panel, Model (Scale TBD), Drawing Set
Fifteenth week	Final Review –Portfolio submission
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Digital Architecture1	Course Number	0008795001
Major / School Year	Major of Architecture and Urban Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 이태영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [27-306: 화(7-8A), 수(5B-6)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

The class aims at not only allowing students to reproduce their final design proposal, but also enabling 3D software to utilize as a design tool from the early stages in architectural design work. Instead of simply attending the class, students are supposed to practice their own ideas (thoughts) to find out the possibilities of the digital tools in the process of effectively developing, expressing, evaluating and supplementing their design ideas.

[2] Course Learning Outcomes

- Using a 3D modeling software to explore and experiment with various forms in the architectural design process (CV 02)
- Learning and practicing various ways of architectural representation through digital tools (CV 02)
- Improving ability to express architectural ideas using diverse digital medias (CV 02)

[3] Class Delivery Method

- In order to learn architectural expression methods using various software, classes will be delivered through practicing sessions and students need to submit assignments following the weekly lectures
- Submission of assignments, midterm and final evaluations are scheduled
- It is strongly recommended to have a basic understanding and knowledge of 3D tools before joining this class

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	40 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robert McNeel & Associates	Publisher	Robert McNeel & Associates	Textbook	Rhino Training Manual Level1	Issued year	2020
(2)	Author	Mode Lab	Publisher	Mode Lab	Textbook	The Grasshopper Primer, Third Edition, V3.3	Issued year	2014
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Helmut Pottmann	Publisher	Bentley	Textbook	Architectural Geometry	Issued year	2007
(2)	Author	Tomoko Sakamoto	Publisher	Actar	Textbook	From Control to Design	Issued year	2008
(3)	Author	Juliane Demel	Publisher	BIS Publisher	Textbook	Contemporary Design Methods in Architecture	Issued year	2011
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – Understanding of Digital Architecture – Introduction to the Rhino interface
Second week	The Rhino Interface & Modelling exercise 01 – The Rhino Interface, Modeling helpers
Third week	The Rhino Interface & Modelling exercise 02 – Precision Modeling
Fourth week	The Rhino Interface & Modelling exercise 03 – Creating Surfaces
Fifth week	The Rhino Interface & Modelling exercise 04 – Creating Surfaces
Sixth week	The Rhino Interface & Modelling exercise 05 – SubD tools
Seventh week	3D Modelling of Architecture Elements – 3D Modelling from 2D Architecture Information – Organization and Annotation
Eighth week	Interim Test & Submission 01 – 3D modelling test – Personal Design Work01
Ninth week	Parametric design tool 01 – Grasshopper
Tenth week	Parametric design tool 02 – Grasshopper
Eleventh week	Parametric design tool 03 – Grasshopper
Twelfth week	Rendering tool – Basics of D5
Thirteenth week	Generative AI
Fourteenth week	Various representation techniques – Learning how to present architectural design – Visualization using Illustrator and Photoshop
Fifteenth week	Final Test & Submission 02 – 3D modelling test – Personal Design Work02
Sixteenth week	

[7] Assignments

The first assignment	assignment	Personal Design Work01	submission date	2026-10-21 Wed
	purpose	Exercise of learning at the class		
	procedure & notice	The 3D models of design work should be one of your own design studio works.		
	references	Teaching materials + reference book		
The second assignment	assignment	Personal Design Work02	submission date	2026-12-09 Wed
	purpose	Exercise of learning at the class		
	procedure & notice	The 3D model + represented drawing & diagrams should be your own design studio work of the semester.		
	references	Teaching materials + reference book		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Ecology	Course Number	0001627001
Major / School Year	Major of Biological Sciences / 2	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 이종구	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[41-108:수(1-2A),금(2B-3)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

생태학이란 생물과 환경 사이의 관계를 연구하는 학문이다. 물, 대기, 기온, 습기, 토양 등의 비생물적요소들과 종 간, 혹은 같은 종 내에서 주고받는 영향을 연구한다. 따라서, 작은 미생물 부터, 생태계 시스템에 이르기 까지 전반적인 이해가 필요하다. 본 수업에서는 생태학의 다양한 학문 분야 및 연구 방법에 대해 초보적인 개념에서 부터 최신 연구경향까지 주요 개념을 중심으로 학습하며 생태학에 대한 폭넓고 의미있는 이해를 하는데 그 목적을 두고 있다.

[2] Course Learning Outcomes

- 생태학의 주요 개념에 대한 이해
- 생태학의 최신 연구 경향에 대한 이해
- 생태학의 응용분야에 대한 이해
- 생태학의 범주 및 생물과 환경사이 관계에 대한 통합적인 이해

[3] Class Delivery Method

수업은 시청각 자료를 활용한 이론 수업을 중심으로 진행한다. 주요 개념에 대한 사전적 정의, 그와 같은 정의가 도출된 이론적 배경, 이해와 접근을 쉽게 해주는 다양한 예시, 이를 위한 연구방법, 응용가능한 분야까지 폭넓은 설명을 하고자 한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	10 %	0 %	10 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	생태학 서문 - 생태학의 개관 및 생태 연구의 예
Second week	육상의 생명 - 큰 규모의 기후변이 - 토양 - 생물군계의 자연사와 지리적 분포 물속의 생명 - 물순환 - 수환경의 자연사
Third week	개체군 유전학과 자연선택 - 개체군 내에서의 변이 - 하디-바인베르크 - 자연선택의 과정 - 자연선택에 의한 진화 - 우연에 의한 변화
Fourth week	환경에 대한 적응 - 온도관계 - 물관계
Fifth week	진화와 생태
Sixth week	상호작용 - 경쟁 - 이용 상호작용 - 공생
Seventh week	시청각 교육
Eighth week	중간고사
Ninth week	개체군생태학 - 개체군의 분포와 풍부도 - 개체군 동태
Tenth week	개체군생태학 - 개체군 성장 - 생활사
Eleventh week	군집과 생태계 - 종풍부도와 다양성 - 중간 상호작용과 군집구조
Twelfth week	군집과 생태계 - 1차 생산과 에너지 흐름 - 영양소의 순환과 보유 - 천이와 안정성
Thirteenth week	대규모생태학 - 경관생태학 - 지리생태학 - 지구생태학
Fourteenth week	종합토론 및 세미나
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The second assignment	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ANIMAL PHYSIOLOGY		Course Number	BD06007001		
Major / School Year	Major of Biological Sciences / 3		completion division /Grade evaluation	/		
Department/Professor	Division of Life Sciences / 권형욱		Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[41-107:화(7-8A),목(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

동물생리의 기본 개념을 행동에서 유전자에 이르기까지 진화와 작용 메커니즘에 초점을 두며, 동물생리학의 기본적인 작용 메커니즘을 이해하고, 현재 생명과학 관련 연구 동향 이해와 활용에 적용할 수 있도록 한다.

[2] Course Learning Outcomes

동물의 다양한 기능을 이해하고 생명현상의 본질을 규명하는 데 필수적인 분야이므로, 생명과학을 공부하는 학생들의 주도적인 학습과 개념파악 연구로서를 통하여 동물생리학에 대한 전반적인 지식을 이해할 수 있도록 한다

[3] Class Delivery Method

교과서의 내용을 예습하고 발표와 세미나, 토론을 중심으로 한다. 동물해부생리학 실험에 응용할 수 있는 기본적인 개념도 이해한다.

수요일 과목은 Term-paper 발표 준비 시간으로 하며, 각자 Term-paper에 대한 준비와 진행상황, 질문 등을 교수와 직접 만나서 이야기를 나누는 시간으로 한다.

(동물생리해부학수강생 필수사항). 자기주도적인 관련 논문발표 및 작성과 팀 또는 개인 발표를 통해서 생명과학의 이해를 응용하는 능력을 함양한다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션 (외국학회 참가로 ZOOM 녹화로 진행) 동물생리에 관한 핫이슈를 Term paper 제목으로 하여, 진행하며, 학기 말에 발표와 논문으로 정리해서 제출함
Second week	Homeostatis and Integration & Cellular and Molecular Physiology
Third week	Membrane and Neuronal Physiology (화요일 수요일 목요일 Zoom 녹화 강의, 차후 안내)
Fourth week	Nervous system and Behavior and Physiology I
Fifth week	Nervous system and Behavior and Physiology II
Sixth week	Sensory system I
Seventh week	Sensory system II (ZOOM 녹화 강의)
Eighth week	Mid-Term exam (No Exam: Term paper presentation I) : 시험은 없고, 텀페이퍼 중간발표
Ninth week	Muscle physiology
Tenth week	Endocrine systems (ZOOM 녹화강의)
Eleventh week	Defense systems
Twelfth week	Circular systems Respiratory systems
Thirteenth week	Term paper 발표 1
Fourteenth week	Term paper 발표 2
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Medical Entomology	Course Number	0012470001
Major / School Year	Major of Biological Sciences / 4	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 권형욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[41-109:화(8B-9),목(8B-9)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

질병매개체생물학은 현재 기후변화 및 여러가지 요인으로 인한 매개체감염병에 대한 인식이 높아지고 있는 점에서 생명과학분야에서 필수적인 지식과 현장 능력을 갖추어야 할 학문분야로 주목되고 있다. 따라서, 매개체와 병원체 및 인간과 동물에 미치는 영향을 전반적으로 다루는 것을 목적으로 하며, 생명과학을 배우는 학생들의 전문지식을 넓히는데 목표로 하고 있다. 질병매개체 이외에도 화분매개체생물에 대한 개념도 다룰 예정이다

[2] Course Learning Outcomes

학생들의 매개체생물학에 대한 전반적인 이해와 개념 그리고 현재 국내외적으로 중요한 분야 등에 대한 기초지식 및 실직적인 지식을 높이하고자 한다,

[3] Class Delivery Method

교과서 및 강의자료 등의 내용을 예습하고 발표와 세미나, 토론을 중심으로 한다. 또한 질병 및 화분매개체에 대한 hands-on 실험에 대한 수업도 진행될 예정이며, 변화하는 매개체 연구 분야에 대한 논문을 지정하여, 학생들이 주도적으로 인지하고 그 내용을 발표한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	매개체 연구 및 감시 체계 현황
Third week	매개체 분류 및 행동생리학 I
Fourth week	매개체 분류 및 행동생리학 I
Fifth week	매개체 분류 및 행동생리학 II
Sixth week	매개체 채집 방법 및 병원체 분석
Seventh week	논문 발표 1
Eighth week	논문 발표 2
Ninth week	water-borne disease biology
Tenth week	Vector-borne Disease biology I
Eleventh week	Vector-borne Disease biology II
Twelfth week	Infections associated with International and outdoor activities and vaccine development
Thirteenth week	논문발표 3
Fourteenth week	논문 발표 4
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Endocrinology and Metabolism	Course Number	0005954001
Major / School Year	Major of Molecular and Medical Science / 3	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 김재근	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[41-108:월(2B-3), 화(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Protein Engineering	Course Number	0001650001
Major / School Year	Major of Molecular and Medical Science / 3	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 박준태	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[41-107:화(5B-6),금(2B-3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Students will gain basic information and mechanism of protein through this course.
In addition, students will gain a brief overview of the development of therapeutic antibodies based on protein engineering.

[2] Course Learning Outcomes

1. Molecular level review of proteins that control various physicochemical reactions of life phenomena
2. Understanding of the approaches regarding protein production and characterization.
3. Understanding of the protein engineering techniques that are being discussed in the field of biopharmaceutical industry

[3] Class Delivery Method

This lecture summarizes the important contents of each chapter and also examines practical applications.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance 20%, Mid-term 40% (homework 50 + mid-term exam 50), Final-term 40% (homework 50 + final-term exam 50)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	David Whitford	Publisher	Wiley	Textbook	Proteins: Structure and Function ()	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Chapter 1. An introduction to protein structure and function
Second week	Chapter 2. Amino acids: the building blocks of proteins
Third week	Chapter 3. The three-dimensional structure of proteins
Fourth week	Chapter 4. The structure and function of fibrous proteins
Fifth week	Chapter 5. The structure and function of membrane proteins
Sixth week	Chapter 5. The structure and function of membrane proteins
Seventh week	Course Summary
Eighth week	Mid term exam
Ninth week	Chapter 6. The diversity of proteins
Tenth week	Chapter 7. Enzyme kinetics, structure, function and catalysis
Eleventh week	Chapter 8. Protein synthesis, processing and turnover
Twelfth week	Chapter 9. Protein expression, purification and characterization
Thirteenth week	Chapter 11. Protein folding in vivo and in vitro
Fourteenth week	Course Summary
Fifteenth week	Final term exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Medical Biotechnology	Course Number	0008812001
Major / School Year	Major of Molecular and Medical Science / 3	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 봉지홍	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[41-109:수(8B-9),목(2B-3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Biotechnology research is producing a wide range of therapeutic innovations and is transforming many aspects of human life. Each year, brand new and advanced biotechnological techniques emerges in the academic field. This lecture introduces these developments and provides an in-depth perspective on therapeutic biotechnologies. (The weekly topics of the syllabus are subject to change.)

[2] Course Learning Outcomes

1. Understanding of the biotechnological innovations introduced in the lecture
2. Motivation and inspiration as a pharmaceutical researcher

[3] Class Delivery Method

The lectures are conducted using PPT slides, supplemented with relevant video materials to enhance understanding.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	30 %	0 %	0 %	0 %

[4] Grading Policies

Grading - Mid-term + Final exam

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	PPT slides	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Cancer Vaccine
Third week	Precision Diagnosis
Fourth week	Artificial Protein Design
Fifth week	Artificial Organ
Sixth week	No Class – Chuseok
Seventh week	Barcoded Microbes
Eighth week	Mid-term Exam
Ninth week	DNA nanomotor
Tenth week	Microbiomes
Eleventh week	Cell Rejuvenation
Twelfth week	Drug Discovery
Thirteenth week	Other Biotechnology
Fourteenth week	Other Biotechnology
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Epigenomics/Epigenetics	Course Number	0007851001
Major / School Year	Major of Molecular and Medical Science / 4	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 박준태	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[41-107:월(2B-3),수(1-2A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

Chromosomes are macromolecular polymers that undergo continuous alterations in structure and organization, which can influence gene expression. These physical variations can be attributed to DNA methylation, histone modifications, chromatin remodeling complexes, and the association of non-coding RNA molecules. Irregular patterns of inheritance that cannot be accounted for by changes in DNA sequence are often caused by epigenetic mechanisms.

[2] Course Learning Outcomes

This course begins with a discussion of the histone code, chromatin associated proteins, the formation and maintenance of heterochromatin, experimental methods, and model organisms. This is followed by discussions of the role of epigenetics in biological phenomena such as imprinting, X-inactivation, cellular identity, cellular reprogramming, tumorigenesis, and the onset of certain types of neurological disorders.

[3] Class Delivery Method

This lecture summarizes the important contents of each chapter and also examines practical applications.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance 20%, Mid-term 40% (homework 50 + mid-term exam 50), Final-term 40% (homework 50 + final-term exam 50)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	이대엽, 권창섭	Publisher	범문에듀케이션	Textbook	후성유전학개론	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction CHAPTER 01 Overview about Epigenetics
Second week	CHAPTER 01 Overview about Epigenetics CHAPTER 02 Epigenetics in <i>Saccharomyces cerevisiae</i>
Third week	CHAPTER 02 Epigenetics in <i>Saccharomyces cerevisiae</i> CHAPTER 03 Epigenetics in <i>Schizosaccharomyces pombe</i>
Fourth week	CHAPTER 03 Epigenetics in <i>Schizosaccharomyces pombe</i>
Fifth week	CHAPTER 04 Epigenetics in Fruit Fly
Sixth week	CHAPTER 05 Epigenetics in Mammals
Seventh week	Course Summary
Eighth week	Mid term exam
Ninth week	CHAPTER 06 Mono-allelic Expression
Tenth week	CHAPTER 07 RNA-directed DNA Methylation(RdDM) in Plant
Eleventh week	CHAPTER 08 Histone Variant and Epigenetics
Twelfth week	CHAPTER 09 Histone Ubiquitylation
Thirteenth week	CHAPTER 10 Histone Acetylation/Deacetylation
Fourteenth week	Course Summary
Fifteenth week	Final term exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	General Chemistry(2)		Course Number	0001189004		
Major / School Year	Division of Bioengineering / 1		completion division /Grade evaluation	/		
Department/Professor	Dept. of Chemistry / 그레고리 아 이작 피터슨		Grades/Lecture/ Practice	2	/	2 / 0
Phone Number		A weekday / class / lecture room	[29-403:목(5)(6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

- To understand the main concepts of modern chemistry and several basic principles of chemistry.
- To prepare the foundation of chemistry for application in various fields, and to cultivate understanding and research ability of various chemical phenomena.

[2] Course Learning Outcomes

- Understand various definitions and concepts related to chemistry.
- Learn about the development of chemistry and the role of chemistry in the future.
- Acquire sufficient basic knowledge of chemistry to prepare for the future considering the connection with other disciplines.

[3] Class Delivery Method

- Understand the basic concepts and principles of chemistry through lectures based on the main textbook and textbook problems.
- Develop application skills by applying the chemical principles learned in class through problem-solving exercises and quizzes during the lecture.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm exam 30%

Final exam 30%

Quizzes 20%

Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robinson, McMurtry, Fay	Publisher	Pearson	Textbook	Chemistry, 8th Edition, Global Edition	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to General Chemistry 2 –Review of General Chemistry 1
Second week	Chapter 9: Thermochemistry: Chemical Energy Part 1
Third week	Chapter 9: Thermochemistry: Chemical Energy Part 2
Fourth week	Chapter 10: Gases: Their Properties and Behavior Part 1
Fifth week	Chapter 10: Gases: Their Properties and Behavior Part 2
Sixth week	Chapter 11: Liquids and Phase Changes
Seventh week	Chapter 12: Solids and Solid-State Materials –Mid-term Review
Eighth week	Mid-term Exam
Ninth week	Chapter 13: Solutions and Their Properties
Tenth week	Chapter 14: Chemical Kinetics Part 1
Eleventh week	Chapter 14: Chemical Kinetics Part 2
Twelfth week	Chapter 15: Chemical Equilibrium
Thirteenth week	Chapter 16: Aqueous Equilibria: Acids and Bases Part 1
Fourteenth week	Chapter 16: Aqueous Equilibria: Acids and Bases Part 2 –Final Exam Review
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quiz	submission date	
	purpose			
	procedure & notice	Quizzes will be given at the beginning of class after the completion of various chapters (5 or 6 quizzes in total).		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Biomedical Genomics		Course Number	0012011001		
Major / School Year	Major of Bioengineering / 4		completion division / Grade evaluation	/		
Department/Professor	Division of Bioengineering / 이동택		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	0328358045	A weekday / class / lecture room	[29-311:목(2B-3)] [29-505:화(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Biomedical genomics is a discipline that leverages the analysis of genomic information from diverse organisms, including humans, to identify the causes of disease and to develop strategies for diagnosis and treatment. Centered on the principles and applications of the latest genomic technologies, this course aims to provide a comprehensive understanding of how genomics contributes to biomedical science and precision medicine.

[2] Course Learning Outcomes

- Explain the history and development of genomics.
- Understand the principles and applications of next-generation sequencing (NGS) technologies.
- Describe the structure of human and disease-related genomes and their variations.
- Explain how genomics converges with genome-based therapeutic technologies.
- Analyze and present case studies that make use of genomic data.

[3] Class Delivery Method

Lecture 60% · Practice 10% · Discussion 30%

- Attendance score: 20 points max (Enforcement Rule Art. 56-2) → for a 3-credit course, 1/3 point deducted per hour absent → 1 point deducted for 3 hours absent
- Students absent for 1/3 or more of total class hours, and those who commit academic misconduct, cannot receive credit regardless of scores (Enforcement Rule Art. 56-3)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	10 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm exam (40%)

Final presentation (40%)

Attendance (20%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Arthur Lesk Introduction to Genomics Oxford University Press	Publisher	Oxford University Press	Textbook	Introduction to Genomics	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Overview of Genomics & the Human Genome Project
Third week	Overview of Genomics & the Human Genome Project
Fourth week	Overview of Genomics & the Human Genome Project
Fifth week	Overview of Next-Generation Sequencing (NGS) Technologies
Sixth week	Genomic Data Formats & Public Databases (NCBI, ENSEMBL, etc.)
Seventh week	Disease Genomics (Cancer / Rare-Disease Cases)
Eighth week	Genomics of Prokaryotes and Viruses
Ninth week	Genomics of Prokaryotes and Viruses
Tenth week	Genome Sequencing & Analysis: Hands-on Examples
Eleventh week	Midterm Exam
Twelfth week	Biomedical Engineering Applications of Genomics I
Thirteenth week	Biomedical Engineering Applications of Genomics II
Fourteenth week	Journal Article Review Presentation I
Fifteenth week	Journal Article Review Presentation II
Sixteenth week	Make-up Class (if needed)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Biomedical Engineering	Course Number	0005856001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 송광훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [29-210:화(2B-3),수(1-2A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This class will cover basic concept and diverse researches of biomedical engineering.

[2] Course Learning Outcomes

The overview, diverse researches and applications of biomedical engineering, which will be given in the class, will provide information that students need to search for research projects, future courses, and future jobs.

[3] Class Delivery Method

The class will be given by lectures.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	100 %	0 %	0 %	0 %

[4] Grading Policies

Exam: 60%

Presentation: 20%

Student presentation: 20%

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to biomedical engineering
Second week	Principles of drug delivery systems
Third week	Biomaterials for drug delivery: polymers, lipid, gold nanoparticle
Fourth week	Therapeutic application of drug delivery
Fifth week	Biomedical imaging
Sixth week	Lab on a chip
Seventh week	Biomechanics
Eighth week	Midterm exam
Ninth week	Organoid
Tenth week	Biomaterials and artificial organs
Eleventh week	Biofabrication strategies
Twelfth week	Tissue engineering, nanobiotechnology, microneedles
Thirteenth week	Cancer therapy
Fourteenth week	Student presentation (Summary of a research paper related to biomedical engineering)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	IMMUNOLOGY	Course Number	0002600001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 양성구	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[29-210:월(5B-6),목(5B-6)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

본 교과목은 인체의 면역체계와 이와 관련된 면역질환을 이해하는데 있다.

[2] Course Learning Outcomes

본 강좌를 통해서 인체의 면역관련 질병을 이해하고 바이오공학적 지식을 기반으로 원인 규명 및 치료방법을 개발할 수 있는 역량을 기르는데 있다.

[3] Class Delivery Method

본 강좌는 16주간 동안 면역학에 관한 강의를 수강하고, 수업중간에 요약 및 질의응답방식으로 진행한다. 대부분 시간을 시청각교육에 중점을 두고 진행한다. 필요에 따라 외부강사초청도 적극 활용한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	10 %	0 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	10 %	0 %	70 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Abbas et al	Publisher	ELSEVIER	Textbook	Basic Immunology	Issued year	2012
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the immune system (면역학 소개)
Second week	Overview of Immune Responses (면역반응 요약)
Third week	Innate Immunity (내재면역)
Fourth week	Antigen Capture and Presentation to Lymphocytes (항원 제시)
Fifth week	Antigen Recognition in the Adaptive Immune System (적응면역에 의한 항원 인식)
Sixth week	T cell-mediated Immunity (T 세포 면역)
Seventh week	Effector Mechanisms of T Cell-mediated Immunity (T 세포 효과기전)
Eighth week	Summary & Mid-term Exam (요약 및 중간시험)
Ninth week	Humoral Immune Responses (B 세포 면역)
Tenth week	Effector Mechanisms of Humoral Immunity (B 세포 효과기전)
Eleventh week	Immunological Tolerance and Autoimmunity (면역질환: 자가 면역)
Twelfth week	Immune Responses against Tumors and Transplants (면역질환: 암세포 면역)
Thirteenth week	Hypersensitivity (면역질환: 면역 과민 반응)
Fourteenth week	Congenital and Acquired Immunodeficiencies (면역질환: 면역결핍)
Fifteenth week	Summary & Final Exam (요약 및 기말시험)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	RUSSIAN READING AND WRITING(1)		Course Number	KA06177001	
Major / School Year	International Commerce and Asian Studies / 1		completion division /Grade evaluation	/	
Department/Professor	School of Northeast Asian Stuides / 정영순		Grades/Lecture/ Practice	2 / 0 / 4	
Phone Number		A weekday / class / lecture room	[14-218:월(3)(4), 수(3)(4)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

본 교과목은 초급 러시아어 학습자를 대상으로 다양한 주제의 텍스트를 읽고 이해하는 능력과 자신의 생각을 글로 표현하는 능력을 기르는 것을 목표로 한다. 교재의 읽기 자료를 활용하여 핵심 내용을 파악하고, 문장 및 단락 단위의 작문 활동을 통해 정확하고 자연스러운 러시아어 표현 능력을 향상시킨다.

[2] Course Learning Outcomes

다양한 주제의 러시아어 텍스트를 읽고 이해할 수 있다.
핵심 내용을 요약하고 필요한 정보를 찾을 수 있다.
학습한 문법과 어휘를 활용하여 짧은 글을 작성할 수 있다.
자신의 경험과 의견을 문단 단위로 표현할 수 있다.
러시아 사회와 문화에 대한 이해를 바탕으로 읽기와 쓰기 능력을 향상시킬 수 있다.

[3] Class Delivery Method

교재의 읽기 자료를 중심으로 독해 활동을 실시하며, 어휘와 문법을 확인한 후 요약, 질문 작성, 문단 쓰기, 짧은 에세이 작성 등 다양한 작문 활동을 수행한다. 개별 피드백을 통해 정확한 표현 능력을 향상시킨다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Chernushev	Publisher	Zlatoust	Textbook	Poehali	Issued year	
(2)	Author	Chernushev	Publisher	Zlatoust	Textbook	Poehali. Working book	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	수업 소개 및 여가생활과 디지털 문화 읽기
Second week	일상생활과 소유에 관한 글 읽기와 쓰기
Third week	시베리아와 러시아 지역문화 독해
Fourth week	여행과 호텔 관련 글 읽기
Fifth week	여행 계획 및 경험 쓰기
Sixth week	소셜미디어와 현대사회
Seventh week	소비생활과 가격 정보 이해
Eighth week	중간고사
Ninth week	러시아의 명절과 문화 읽기
Tenth week	인물과 성격 묘사
Eleventh week	미래 계획에 관한 글쓰기
Twelfth week	감정과 건강 관련 텍스트
Thirteenth week	러시아 생활문화 읽기와 의견 쓰기
Fourteenth week	직업과 취미에 관한 작문 및 종합 복습
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ENGLISH READING AND WRITING(1)	Course Number	KA06178001
Major / School Year	International Commerce and Asian Studies / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / Cruz Jr Fidel Richard	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number	A weekday / class / lecture room [14-116:월(4)(5),수(4)(5)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

The course objectives are to get students to think critically about provocative topics and instruct them on how to express their opinions in written form.

[2] Course Learning Outcomes

By the end of the semester, students should be able to examine written text and identify symbolism in addition to following a narrative. These skills will assist students in understanding the text at a deep, philosophical level. Moreover, students will be able to develop their opinions on topics and present them in an academic essay that is supported by resource data.

[3] Class Delivery Method

Students must take an active role in class. Lecture will only account for a small portion of the course. Topics will be introduced, but a significant amount of group work will be expected. Students will discuss, in groups, pre-reading questions. They must express their ideas honestly and logically. Then, as a class, the questions will be discussed. There will also be post-reading questions, which will be done in groups as well. The idea isn't to indoctrinate the students into what the professor believes to be true about the readings, but to bring out their opinions about what they are reading.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm & Final: 30% / Essays (2): 30% / Participation & Homework 20% / Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	N/A	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Materials and texts will be accessible from the Internet. Students may purchase a physical copy of the novel, The Giver, or obtain a digital copy.

[6] Weekly lesson plans

First week	Orientation and discussion of “how” to write for the course / How to read for symbolism (metaphors). The Lottery
Second week	Examining previous student essays / Discussion of The Lottery
Third week	Introduction paragraphs and developing a clear thesis statement / The Veldt
Fourth week	Chusoeck
Fifth week	Hills Like White Elephants / Culture & Tradition on abortion / Intro paragraphs due (Assign 1st Essay)
Sixth week	Discussing all three stories and looking for similarities and differences / Gender roles /
Seventh week	Review for the Midterm / Second draft due
Eighth week	Midterm Exam
Ninth week	Final drafts / Introduction to the novel, The Giver
Tenth week	Discussion of assigned reading
Eleventh week	Discussion of assigned reading / Intro paragraph due
Twelfth week	Discussion of assigned reading / Assign 2nd Essay
Thirteenth week	Discussion of assigned reading / 2nd draft due
Fourteenth week	Discussion of assigned reading / Review of the novel in preparation for the final exam
Fifteenth week	Final Exam
Sixteenth week	Reserved for make ups / Final drafts due

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	JAPANESE READING AND WRITING(1)	Course Number	KA06176001
Major / School Year	International Commerce and Asian Studies / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 기타우치 다 이토	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number	A weekday / class / lecture room		[14-219: 화(3)(4), 금(5)(6)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

문장을 읽고 쓰는 것을 통해서 기초적인 읽기, 쓰기를 할 수 있게 하는 것을 목적으로 한다.
읽기와 쓰기를 통해서 한자를 읽고 쓰는 것에 익숙해질 수 있기끔 한다.

[2] Course Learning Outcomes

문장을 막힘 없이 읽을 수 있게 한다(속도는 느려도 됨)
간단한 문법을 사용해서 자신이 말하고자 하는 것을 상대방에게 전달할 수 있게끔 한다.
기초적인 문법을 이해하고 사용할 수 있게 한다.
사전을 올바르게 사용할 수 있게끔 한다.

[3] Class Delivery Method

교재를 중심으로 수업을 진행한다.
기본적으로는 읽기와 쓰기를 중심으로 수업을 진행한다.
문법을 설명할 때는 한국어를 쓸 수도 있지만 기본적으로는 일본어로 수업을 진행한다.
배운 것을 사용할 수 있게끔 실제로 일본인과 만나거나 온라인을 통해서 발표할 시간을 마련할 예정.
수업에서 배운 것과 주제를 토대로 발표를 준비해서 실제로 일본인에게 의견을 들어보고 토론할 시간을 갖는다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	60 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	최민경	Publisher	시사일본어사	Textbook	착! 붙는 일본어 독해	Issued year	2025
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1과 자기소개 자기소개에 관한 문장을 읽고 자기소개를 할 때 어떤 이야기를 하는지 생각해보고 마지막으로 자기소개 글을 쓴다.
Second week	2과 나의 하루 하루의 스케줄에 관한 문장을 읽고 실제로 일정을 생각하면서 스케줄을 짜보고 거것에 대한 내용을 추가 하면서 글을 쓴다.
Third week	3과 편지 편지에 관한 문장을 읽고 실제로 편지를 쓴다면 누구에게 어떤 내용을 쓸지 생각해 보고 실제로 편지를 써 본다.
Fourth week	4과 감기 감기의 유래를 설명하는 글을 읽고 원가를 설명할 때 무슨 이야기를 넣으면 되는지 생각해 보고 실제로 어떤 상황에 대해 설명하는 글을 쓴다.
Fifth week	5과 오코노미야키 오코노미야키의 종류에 대한 글을 읽고 두 가지 사항을 비교하면서 설명할 때에는 어떤 식으로 전개시키 면 되는지에 대해서 생각을 해 본다. 그리고 실제로 비슷하지만 차이가 있는 사항에 대한 비교와 설명을 하는 글을 써본다.
Sixth week	6과 여우와 너구리 두 가지 종류의 우동의 유래에 관한 설명 글을 읽고 어떤 사항에 유래 등을 설명할 때 글을 어떻게 쓰면 될 지에 대해 생각해 보고 실제로 유래에 대해 설명을 하는 글을 쓴다.
Seventh week	7과 어? 영어가 아니야? 일본식 영어에 관한 글을 읽고 한국에서 사용되고 있는 한국식 영어에 대해서 생각해 보고 글을 쓴다.
Eighth week	중간고사
Ninth week	8과 지명의 유래
Tenth week	8과 지명의 유래 지명에 관한 글을 읽고 한국의 지명은 어떤 식으로 만들어졌는지에 대해서 조사하고 글을 쓴다.
Eleventh week	9과 사슴공원 일본에 실제로 있는 사슴이 많은 공원에 관한 글을 읽고 한국에서 유명한 공원이나 장소에 대해서 생각해 보고 글을 쓴다.
Twelfth week	10과 오랜지색 색깔에 관한 글을 읽고 한국에서는 생깁니다 어떤 이미지를 가지고 있는지 알아보고 글을 쓴다.
Thirteenth week	11과 수를 세는 법 일본 조수사에 관한 글을 읽고 한국에서는 어떤 조수사가 있고 어떤 때 사용되는지에 대한 조사를 한 후에 조수사에 관한 글을 쓴다.
Fourteenth week	12과 구어체와 문어체 구어체와 문어체에 관한 글을 읽고 둘 사이에는 어떤 차이가 있고 어떤 시선이 있는지에 대해서 생각해 보 고 글을 쓴다.
Fifteenth week	15과 새해맞이 일본에서의 새해맞이에 대한 글을 읽고 한국과 어떤 차이가 있는지, 한국에서는 어떤 행사가 있는지에 대 해서 글을 쓴다.
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment	일본 문화에 관한 작문	submission date	
	purpose	조사한 것을 정리하고 일본어로 서술하는 것. 상대방이 이해할 수 있게끔 쉽고 간결하게 쓰는 것.		
	procedure & notice	교재에서 나온 주제 중 가장 관심이 있는 것을 선택해서 조사를 한다. 주제가 겹치지 않게 조율할 예정.		
	references			
The second assignment	assignment	배운 문법을 이용해서 작문	submission date	
	purpose	배운 문법을 이해해서 문장을 만들 수 있는 것. 그냥 제시된 문법을 사용해서 문장을 만드는 것이 아니라 대화형식으로 작성하거나 상황설명을 넣고 작성하는 등 학생들에게 전달한다.		
	procedure & notice	꼭 사전을 사용하도록 한다(번역기 사용은 금지) 기본적으로 한 과가 끝난 다음 주를 제출일로 한다.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	CHINESE READING AND WRITING(1)	Course Number	KA06175001
Major / School Year	International Commerce and Asian Studies / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies /	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class / lecture room	[14-116:화(3)(4)] [14-218:월(6)(7)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

중국어 입문 단계의 학습을 마친 학생들을 대상으로 초보 수준의 지문과 다양한 주제의 본문을 통해 독해와 작문 능력을 집중적으로 훈련하여 학생들의 독해 능력, 작문 능력을 키워 중급 단계로 가기 위한 실력을 한층 더 업그레이드 시킨다.

[2] Course Learning Outcomes

1. 다양한 테스트를 통해 초보적인 독해 능력 양성
2. 초보적 작문 능력 양성
3. 독해 통해 어휘력 확장한다
4. 다양한 주제의 본문을 통해 현대 중국사회 문화적 배경 지식을 얻는다.

[3] Class Delivery Method

수업 전에 어휘 예습
어휘와 중요한 문형, 문법적인 요소, 그리고 정독 속독의 요령을 설명(강의)
다양한 주제의 본문을 통해 정독 속독 연습
중요한 문형과 표현을 모방하여 작문 연습
주제 별로 단문 작성

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	다락원	Textbook	신공략중국어 I독해 초급	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1주차 -1 1. 과목 소개: 강의 목표 평가 방법 등 2. 독해 방법 설명 3. 중국어 문장 분석 연습 1주차 -2 제1과 정독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제
Second week	2주차 -1 제1과 속독 1.어휘 연습 2. 본문 독해 2주차 -2 3. 연습 문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제
Third week	3주차 -1 제2과 정독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제 3주차 -2 제2과 속독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제
Fourth week	4주차 -1 제3과 정독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제 4주차 -2 제3과 속독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제
Fifth week	5주차 -1 제4과 정독 1.어휘 연습 2. 본문 독해 5주차 -2 1. 연습문제 풀기 2. 중요한 문형 패턴 설명 과 작문 연습 3. 과제
Sixth week	6주차 -1 제4과 속독 1.어휘 연습 2. 본문 독해 6주차 -2 1. 연습문제 풀기 2. 중요한 문형 패턴 설명 과 작문 연습 3. 과제
Seventh week	7주차 -1 제5과 정독 1.어휘 연습 2. 본문 독해 7주차 -2 1. 연습문제 풀기 2. 중요한 문형 패턴 설명 과 작문 연습 3. 과제
Eighth week	중간시험
Ninth week	9주차 -1 제5과 속독 1.어휘 연습 2. 본문 독해 9주차 -2 3. 연습 문제 풀기 4. 중요한 문형,패턴 설명 과 작문 연습 5. 과제
Tenth week	10주차 -1 제6과 정독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제 10주차 -2 제6과 속독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제
Eleventh week	11주차 -1 제7과 정독 1.어휘 연습 2. 본문 독해 3. 연습 문제 풀기 10주차 -2 1. 연습 문제 풀기 2. 중요한 문형 패턴 설명 과 작문 연습 3. 과제
Twelfth week	12주차 -1 제7과 속독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 11주차 -2 1. 연습문제 풀기 2. 중요한 문형 패턴 설명 과 작문 연습 4. 과제
Thirteenth week	13주차 -1 제8과 정독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제 10주차 -2 제8과 속독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제
Fourteenth week	14주차 -1 제9과 정독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제 14주차 -2 제9과 속독 1.어휘 연습 2. 본문 독해 3. 연습문제 풀기 4. 중요한 문형 패턴 설명 과 작문 연습 5. 과제
Fifteenth week	기말 시험

Sixteenth week	보강

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	BEGINNING RUSSIAN CONVERSATION	Course Number	KA06084001
Major / School Year	International Commerce and Asian Studies / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 정영순	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number	A weekday / class / lecture room [14-218:수(5)(6)] [14-220:월(5)(6)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

본 교과목은 초급 러시아어 학습자를 대상으로 일상생활에서 자주 접하는 다양한 주제에 대해 자연스럽게 의사소통할 수 있는 능력을 기르는 것을 목표로 한다. 교재의 대화와 상황을 바탕으로 학생들은 말하기와 듣기 능력을 향상시키며, 실제 의사소통 상황에서 필요한 어휘와 표현을 익힌다. 또한 역할극, 발표 및 토론 활동을 통해 자신의 의견과 경험을 러시아어로 표현하는 능력을 기른다.

[2] Course Learning Outcomes

일상생활의 다양한 주제에 대해 러시아어로 의사소통할 수 있다.
 기본적인 문법과 어휘를 실제 대화에서 활용할 수 있다.
 상황에 맞는 질문과 답변을 자연스럽게 수행할 수 있다.
 자신의 경험과 생각을 러시아어로 표현할 수 있다.
 러시아 문화와 의사소통 방식을 이해하고 적절하게 활용할 수 있다.

[3] Class Delivery Method

의사소통 중심 교수법을 기반으로 대화 연습, 역할극, 발표, 짝 활동, 그룹 토론 등을 실시한다. 교재의 대화문과 상황을 중심으로 듣기와 말하기를 반복 연습하며, 다양한 시청각 자료를 활용하여 실제 의사소통 능력을 향상시킨다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Chernushev	Publisher	Zlatoust	Textbook	Poehali.	Issued year	
(2)	Author	Chernushev	Publisher	Zlatoust	Textbook	Poehali. Working book	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	수업 소개 및 여가생활과 디지털 문화
Second week	소유와 일상생활
Third week	시베리아와 러시아 지역문화
Fourth week	여행과 호텔 이용
Fifth week	이상적인 여행과 교통
Sixth week	SNS와 현대인의 소통
Seventh week	물건 구입과 가격
Eighth week	중간고사
Ninth week	러시아의 명절과 문화
Tenth week	성격과 인간관계
Eleventh week	미래 계획과 꿈
Twelfth week	감정 표현과 건강
Thirteenth week	러시아 생활과 문화 적응
Fourteenth week	직업과 취미에 대한 의사소통
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	ELEMENTARY ENGLISH		Course Number	KA06143001	
Major / School Year	International Commerce and Asian Studies / 1		completion division /Grade evaluation	/	
Department/Professor	School of Northeast Asian Stuides / Cruz Jr Fidel Richard		Grades/Lecture/ Practice	2 / 0 / 4	
Phone Number		A weekday / class / lecture room	[14-116:월(2)(3),수(2)(3)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

The purpose of the course is to develop critical thinking skills and enhance students' English-speaking ability. Students will develop logical arguments based on their opinions and reliable sources and express them to small and large groups.

[2] Course Learning Outcomes

Students will be prepared to develop logical arguments and convincingly present them. Using reliable sources and facts, not conjecture, students will be able to defend their point of view.

[3] Class Delivery Method

The course will rely heavily on student participation. The professor will introduce each topic using articles and videos. Students will work in small groups to express their initial thoughts and then form logical decisions based on unbiased sources.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm & Final Exams: 50% / Participation 30% / Attendance 20%

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	N/A	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

The professor will provide all materials or students will access research material from the Internet.

[6] Weekly lesson plans

First week	Orientation / What is critical thinking? / Mind games (the bridge/electric train/rooster)
Second week	Critical thinking questions (in groups) / Discussion topic: Has religion become obsolete?
Third week	Discussion topic: Pros/Cons of social media / Make a case for each point
Fourth week	Chuseok
Fifth week	Has innovation made humans less dependent on traditional gender roles? / Develop arguments
Sixth week	Critical thinking questions in groups / Presentations
Seventh week	Review for midterms
Eighth week	Midterms
Ninth week	The Human Animal: Are we better than other animals? / Presentations
Tenth week	Does life have meaning? / Present arguments for or against
Eleventh week	Should Korea include young women in military duty? / Presentations
Twelfth week	Are people treated equally? / Presentations
Thirteenth week	What is something that greatly interests you? / Presentations
Fourteenth week	Review for final exam
Fifteenth week	Final Exams
Sixteenth week	Reserved for make ups

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	BEGINNING JAPANESE CONVERSATION	Course Number	KA06075001
Major / School Year	International Commerce and Asian Studies / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 기타우치 다 이토	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number	A weekday / class / lecture room		[14-219: 화(1)(2), 금(7)(8)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

기초적인 문법을 이해하고 아웃풋을 통해서 대화를 할 때 사용할 수 있게 한다.

[2] Course Learning Outcomes

일본어로 이야기하려는 적극성을 키운다.
틀려도 되니까 일본어로 상대방에게 전달하려고 하는 자세를 만든다.
상대방에게 자신이 말하고자 하는 것을 쉽게 전달할 수 있게 한다.

[3] Class Delivery Method

교재를 통해서 문법이나 표현을 배운다.
배운 문법이나 표현은 짝활동이나 질의응답을 통해서 꼭 사용하도록 한다.
실제로 인천대학교에 와있는 유학생을 초대해서 배운 것을 사용할 시간을 마련한다.
자신이 배운 문법이나 어휘, 표현을 사용하는 것은 물론 일본인들이 사용하는 표현들이나 발음 등을 듣고 자신이 보완해야 할 점을 깨달을 수 있게 한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	60 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	부산대학교 일본어교재연구회	Publisher	동양북스	Textbook	뚝뚝! 일본어 STEP2	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	OT, 방학에 관한 질의응답
Second week	1과 : "~~하기 ~~다" 형태의 문법과 표현을 배우고 익힌다.
Third week	2과 : 동사 ㅅ형을 이용한 문법 1과와 2과에서 배운 것을 토대로 자신의 일상과 앞으로의 계획에 대해서 일본사람들과 이야기한다.
Fourth week	3과 : 동사 ㅅ형을 이용한 문법
Fifth week	4과 : 변화를 나타내는 문법과 표현 3과와 4과에서 배운 것을 토대로 일본의 대학생활에 대해서 일본사람들과 이야기한다.
Sixth week	5과 : 추측을 나타내는 문법과 표현
Seventh week	6과 : 가능형와 가능성을 나타내는 문법과 표현 5과와 6과에서 배운 것을 토대로 갖고 싶은 것과 희망하는 것에 대해서 일본사람들과 이야기한다.
Eighth week	중간고사
Ninth week	7과 : 전달이나 인용을 나타내는 문법과 표현
Tenth week	8과 : 동사의지형과 미래표현 7과와 8과에서 배운 것을 토대로 일본에서 어떤 장면에서 어떤 표현을 사용하는지에 대해서 일본사람들과 이야기한다.(권유, 허가를 중심으로)
Eleventh week	9과 : 조건을 나타내는 표현
Twelfth week	10과 : 수수표현 :あげる/くれる/もらう 9과와 10과에서 배운 것을 토대로 자신이 현재까지 있었던 일 중 후회가 되는 것과 잘한 것에 대해서 일본사람들과 이야기한다.
Thirteenth week	11과 : 수동표현
Fourteenth week	12과 : 사역표현 11과와 12과에서 배운 것을 토대로 한국인이 생각하는 일본의 대한 이미지와 일본인이 생각하는 한국에 대한 이미지에 대해서 일본사람들과 이야기한다.
Fifteenth week	13과 : 경어
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment	교재에 나와 있는 문법을 사용해서 대화만들기	submission date	
	purpose	대문법을 이용해서 상대방과 의사소통할 수 있게 한다. 기초적인 문법을 이해하고 적절하게 사용할 수 있게 한다.		
	procedure & notice	상황을 제시해서 간단하게 대화문을 만든다. 그룹이나 짝을 만들어서 진행한다. 틀리는 것을 생각하지 않고 자신이 이해한 대로 만들어야 한다고 전달한다. 틀리는 것이 절대 창피한 일이 아니라고 전달하고 자유롭게 만들 수 있는 분위기를 만든다.		
	references			
The second assignment	assignment	일본인과의 활동을 위한 준비	submission date	
	purpose			
	procedure & notice	일본인들과 대화를 하는데 어떤 질문을 하고 어떤 말을 할지 생각하고 말할 수 있게끔 연습을 한다. 질문이나 의견만 생각하는 게 아니라 질문을 받았을 때 잘 대답할 수 있게 예상 질문도 생각하고 대처할 수 있게 준비해야 한다.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	BEGINNING CHINESE CONVERSATION	Course Number	KA06066001
Major / School Year	International Commerce and Asian Studies / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies /	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number	A weekday / class / lecture room [14-116: 화(1)(2), 금(6)(7)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

입문단계에 이어 각 주제별 어휘 표현과 회화내용을 배운 동시에 어휘량을 늘이며 중국어 기본 적인 문법 습득에 중점을 둔다.
초급수준의 문형을 바탕으로 더 다양한 회화 표현법을 연습하여 실생활에 필요한 내용을 중심으로 초급수준의 실용회화를 습득하는데 목적을 둔다.
통상학부 학생위한 기본 적인 비즈니스 중국어 습득과 중국사회 중국문화 이해

[2] Course Learning Outcomes

1. 초급수준의 어휘확장과 어휘활용능력양성의 동시에 중국어 문법 기초를 단단하게 다진다.
2. 듣기 능력과 회화표현 능력 향상하여 중국어 능숙 하게 구사할 수 있도록 한다.
- 3 중국사회와 중국문화 이해

[3] Class Delivery Method

단어: 수업전에 예습하기 수업 중에 중요한 어휘 설명과 어휘확장 작문연습
대화: 본문을 이해와 속지 읽기연습과 암기 실전 회화 연습하기
문법: 이해 속지 문제 풀이

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	0 %	50 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	다락원	Textbook	신공략중국어 2	Issued year	
(2)	Author		Publisher	다락원	Textbook	신공략중국어 3	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1 오리엔테이션(강의 소개 및 학생 상황 파악) 2 신공략 2 6과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Second week	신공략 2 7과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Third week	신공략 2 8과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Fourth week	신공략 2 9과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Fifth week	신공략 2 10과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Sixth week	신공략 3 1과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Seventh week	신공략 3 2과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Eighth week	중간 시험
Ninth week	신공략 3 3과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Tenth week	신공략 3 4과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Eleventh week	신공략 3 6과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Twelfth week	신공략 3 7과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Thirteenth week	신공략 3 8과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Fourteenth week	신공략 3 9과 1) 단어 연습 중요한 어휘 작문 2) 회화 내용 배우기 :정확하게 읽고(한자로) 실전 회화 가능하게 연습 3) 문법: 핵심 문법 이해하고 작문 문제 풀이
Fifteenth week	기말 시험
Sixteenth week	보강

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
			submission	

The third assignment	assignment		date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	THEORY OF INTERNATIONAL FINANCE	Course Number	KA06170001
Major / School Year	International Commerce and Asian Studies / 2	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김지영	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [14-224:월(1-2A),목(2B-3)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This course studies topics of international finance and open economies in the framework of macroeconomic theories. Topics will cover exchange rate determination, open economy macro models, national accounts and exchange rate regimes.

[2] Course Learning Outcomes

Students will understand how national economies interact in the world and how international macroeconomic policies affect the countries around the world.

[3] Class Delivery Method

Lectures in English

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Krugman, Obstfeld and Melitz	Publisher	Pearson	Textbook	International Economics	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction & National income accounting
Second week	The balance of payments & Foreign exchange markets
Third week	The balance of payments & Foreign exchange markets
Fourth week	Foreign exchange markets
Fifth week	Exchange rates
Sixth week	Money market & Interest rates and exchange rates
Seventh week	Purchasing power parity
Eighth week	Midterm exam
Ninth week	Price levels and the exchange rate in the long run
Tenth week	Price levels and the exchange rate in the long run
Eleventh week	The exchange rate in the short run
Twelfth week	The exchange rate in the short run
Thirteenth week	Fixed exchange rates
Fourteenth week	International monetary system
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	KOREA-U.S. ECONOMIC RELATIONS	Course Number	KAD6021001
Major / School Year	International Commerce and Asian Studies / 2	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 한도숙	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[14-218:화(8B-9),수(8B-9)]
Office hours			Medium of Instruction EN

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	HSK Practical Training		Course Number	0011577001		
Major / School Year	International Commerce and Asian Studies / 3		completion division /Grade evaluation	/		
Department/Professor	School of Northeast Asian Stuides /		Grades/Lecture/ Practice	3	/	2 / 2
Phone Number		A weekday / class / lecture room	[14-218:월(8)(9)] [14-224:금(3)(4)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

중국어 기본 실력을 갖춘 학생을 대상으로 중국 HSK 시험을 준비하는 체계적인 학습을 진행하며 특히 졸업 및 취업 등에서 요구되는 구체적인 HSK 듣기 독해 쓰기 말하기 수준을 달성하기 위해 필요한 중국어 경험과 능력을 확대한다.

[2] Course Learning Outcomes

3학년 학생 대상으로 HSK 5-6급 시험 응시능력을 확대한동시에 듣기 독해 쓰기 말하기 수준을 확대한다(개강후에 수강인원의 중국어 수준에 따라 5급나 6급에 편중을 결정한다)

1. HSK 독해연습 통해 어휘확장과 어휘활용능력 확대
2. HSK 작문연습 통해 중국어 문법 더 단단하게 다진다.
3. HSK 듣기연습 통해 듣기 능력 향상시킨다
4. HSKK 말하기연습 통해 말하기 수준 향상시킨다.

[3] Class Delivery Method

단어 연습: 수업 전에 예습 숙제 주고 수업 중 단어 테스트 진행과 중요한 어휘 설명
문법 연습: 수업마다 1-2개 씩 중국어 문법 체계적으로 설명과 집중 연습 해당 문제 풀이
듣기 연습: 수업마다 듣기 능력 훈련과 듣기 문제 풀이
작문 연습: 작문 숙제와 수업 중 즉시 작문 하기 두 가지 방법 작문 문제 풀이
문제 풀이 설명
매주 수업마다 같은 패턴으로 진행한다.
연습 문제는 각HSK 모의 실전 문제집에서 선택한다
(개강 후에 수강 인원의 중국어 수준에 따라 5급이나 6급에 집중 결정한다)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	해커스HSK 문제집 맛있는 HSK 문제집 등 각 출판사 출판한 HSK 문제집	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1주차 오리엔테이션(강의소개 및 학생 상황파악) 모의 시험 및 문제 풀리 설명					
Second week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Third week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Fourth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Fifth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Sixth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Seventh week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Eighth week	중간 시험 모의 시험					
Ninth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Tenth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Eleventh week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Twelfth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Thirteenth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Fourteenth week	1회차수업 1)단어연습 20분간 2)듣기연습 40분간 3) 독해연습 40분간 2화차수업 4)문법연습 30분간 5)작문연습 40분간 6)말하기연습 30분간					
Fifteenth week	기말 시험					
Sixteenth week	보강					

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Russian Conversation on International Economy	Course Number	0003460001
Major / School Year	International Commerce and Asian Studies / 4	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 정영순	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [14-218:월(1-2A),수(1-2A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

본 교과목은 고급 수준의 러시아어 학습자를 대상으로 경제 및 비즈니스 분야의 의사소통 능력을 심화시키는 것을 목표로 한다.

학생들은 경제·경영·기업 활동과 관련된 다양한 주제를 러시아어로 이해하고 토론하며, 전문적인 상황에서 필요한 말하기와 쓰기 능력을 향상시킨다. 또한 현대 경제 및 비즈니스 분야의 핵심 어휘와 표현을 익히고, 원인·결과, 조건, 시간, 목적, 비교 등의 문법 표현을 실제 의사소통에 적절하게 활용하는 능력을 기른다.

수업에서는 기업 경영, 인적자원, 마케팅, 고객 서비스, 브랜드 이미지, 조직 운영 등 다양한 경제 관련 주제를 다루며, 토론, 발표, 협상, 비즈니스 서신 작성, 사례 분석 등 실제적인 의사소통 활동을 수행한다. 아울러 러시아와 국제 비즈니스 환경의 문화적 특성을 비교·이해하고, 전문적인 상황에서 논리적으로 의견을 제시하고 문제를 해결하는 능력을 함양한다.

수강생은 본 교과목을 통해 경제 및 비즈니스 분야의 다양한 주제에 대해 러시아어로 효과적으로 의사소통하고, 학문적·실무적 환경에서 활용할 수 있는 전문적인 언어 능력을 갖추게 된다.

[2] Course Learning Outcomes

- 경제 및 비즈니스 분야에서 자주 사용되는 러시아어 어휘와 표현을 이해하고 적절하게 활용할 수 있다.
- 경제 관련 기사, 보고서 및 다양한 자료를 읽고 핵심 내용을 분석·요약할 수 있다.
- 기업 경영, 마케팅, 인적자원, 고객 서비스, 시장 환경 등 경제 주제에 대해 자신의 의견을 논리적으로 발표하고 토론할 수 있다.
- 발표, 협상, 비즈니스 서신 작성, 사례 분석 등 실제적인 의사소통 과제를 수행할 수 있다.
- 원인·결과, 조건, 시간, 목적, 비교 등 고급 문법 표현을 경제 및 비즈니스 상황에서 정확하게 사용할 수 있다.
- 러시아 및 국제 비즈니스 환경의 문화적 특성을 이해하고, 다양한 전문적 상황에서 효과적으로 의사소통할 수 있다.
- 경제 및 경영 분야의 실제 사례를 바탕으로 문제를 분석하고 해결 방안을 제시하는 능력을 기른다.
- 학문적·실무적 환경에서 러시아어를 활용할 수 있는 전문적인 의사소통 역량을 강화한다.

[3] Class Delivery Method

본 교과목은 학생 참여 중심의 의사소통식 교수법을 기반으로 운영된다. 경제 및 비즈니스 관련 주제를 중심으로 강의, 텍스트 읽기, 어휘 및 문법 학습, 토론, 발표, 역할극, 사례 분석, 문제 해결 활동 등을 균형 있게 실시한다. 실제 경제 기사, 기업 사례 및 다양한 시청각 자료를 활용하여 학습자의 이해를 높이고, 러시아어로 의견을 교환하고 협력하는 활동을 통해 실질적인 의사소통 능력을 향상시킨다. 또한 과제와 피드백을 통해 학습 내용을 지속적으로 점검하고, 학습자가 전문적인 상황에서 러시아어를 효과적으로 활용할 수 있도록 지도한다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kotane	Publisher	Zlatoust	Textbook	Russian for business (pre-intermediate textbook)	Issued year	
(2)	Author	Kotane	Publisher	Zlatoust	Textbook	Russian for business (pre-intermediate workbook)	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Rodimkina, Landsman	Publisher	Zlatoust	Textbook	Russia: economy and society	Issued year	

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	경제활동과 시간관리 및 업무 효율성
Second week	커리어 개발과 인적자원 관리
Third week	시장경제와 수요·공급의 이해
Fourth week	고객 서비스와 기업 커뮤니케이션
Fifth week	시장 경쟁과 기업 경쟁력
Sixth week	리더십과 조직 운영
Seventh week	품질경영과 서비스 품질
Eighth week	중간고사
Ninth week	전시회와 기업 홍보 전략
Tenth week	기업 혁신과 변화 관리
Eleventh week	기업 계획 수립과 프로젝트 관리
Twelfth week	기업 이미지와 브랜드 가치
Thirteenth week	경제 및 비즈니스 사례 분석
Fourteenth week	경제 뉴스와 기업 사례 토론
Fifteenth week	기업 이미지와 비즈니스 커뮤니케이션 종합
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Return of Depression Economy of the United States of America and the World	Course Number	0011580001
Major / School Year	International Commerce and Asian Studies / 4	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 한도숙	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-218:화(7-8A),수(7-8A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	RISE		Course Number	0009062080		
Major / School Year	International Business Economics	/ 전학년	completion division /Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies	/ 정승호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	A weekday / class / lecture room					
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This RISE (Research-Intensive Self-Motivated Education) course is designed for third- and fourth-year students who wish to develop an independent research topic in international or regional economics into a complete academic paper.

Students will formulate a research question, review relevant literature, select appropriate research methods and data sources, analyze their topic, and present their findings. The course combines a small number of whole-class lectures and presentation sessions—including proposal, midterm, and final presentations—with one-on-one mentoring throughout the semester.

This course is especially recommended for students preparing a graduation thesis.

[2] Course Learning Outcomes

By the end of the course, students will be able to:

1. Formulate a clear and feasible research question in international or regional economics.
2. Search for, evaluate, and synthesize relevant academic literature and other sources.
3. Select appropriate research methods and data sources for their research topic.
4. Write and present a well-organized academic paper while following research ethics and citation standards.

[3] Class Delivery Method

The course will consist mainly of independent research and one-on-one mentoring, supplemented by whole-class lectures and presentation sessions.

In-person class sessions will be announced in advance. When an in-person session is held, it will take place in Room 120.

Students are expected to conduct independent research and revise their work continuously based on feedback from the instructor.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

To receive a Pass, students must:

Participate in required lectures, presentations, and mentoring sessions.
Complete the research proposal, midterm report, and final presentation.
Submit a complete final research paper.
Follow academic writing, citation, and research ethics requirements.

Failure to complete the major course requirements may result in a Fail.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation and Development of a Research Question
Second week	Fundamentals of Academic Writing and Research Ethics
Third week	Individual Mentoring: Research Topic Development I
Fourth week	Individual Mentoring: Research Topic Development II
Fifth week	Research Proposal Presentations
Sixth week	Literature Review: Searching, Organizing, and Synthesizing Sources; Writing the Introduction
Seventh week	Individual Mentoring for the Midterm Report I: Research Methods and Data Sources
Eighth week	Individual Mentoring for the Midterm Report II: Research Methods and Data Sources
Ninth week	Individual Mentoring for the Midterm Report III: Research Design and Progress Review
Tenth week	Midterm Report Presentations
Eleventh week	Individual Mentoring for Final Paper Writing I
Twelfth week	Individual Mentoring for Final Paper Writing II
Thirteenth week	Individual Mentoring for Final Paper Writing III
Fourteenth week	Final Paper Mentoring IV: Citations, References, and Formatting
Fifteenth week	Final Research Presentations
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Economic Data 2	Course Number	0011553001
Major / School Year	International Business Economics / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 정승호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room		[14-117:화(7-8A),목(7-8A)]
Office hours	Medium of Instruction		EN

[1] Outline / Purpose

This course develops students' ability to use Excel to analyze real-world economic and social data. Building on the skills acquired in Economic Data 1, students will complete selected activities from Projects 7-12 of Doing Economics: Empirical Projects. Although AI can automate many data-related tasks, its effective use requires a basic understanding of how data are organized, analyzed, and interpreted. By developing fundamental Excel and data-analysis skills through hands-on projects, students will be better prepared to use AI-assisted tools effectively and critically evaluate AI-generated results. The course emphasizes data cleaning, visualization, statistical interpretation, and the communication of empirical findings.

[2] Course Learning Outcomes

1. Use Excel to organize, clean, summarize, analyze, and visualize real-world economic and social data.
2. Apply economic concepts and basic statistical methods to analyze and interpret empirical data.
3. Critically evaluate data, analytical procedures, and results, and communicate empirical findings clearly through tables, charts, and written explanations.

[3] Class Delivery Method

Lectures, demonstrations, and hands-on computer lab sessions

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

The midterm and final examinations will be computer-based practical examinations using Excel. Students will be evaluated on their ability to organize, analyze, visualize, and interpret economic data.

*Optional Group Project

Students who wish to participate may form a group of up to five members and submit their group members and proposed topic before the midterm examination. If class progress permits, approved groups may present their project and earn up to five bonus points. Non-participation will not result in any penalty.

* AI Use Policy

Students are encouraged to use AI tools for review, practice, and troubleshooting outside examinations. They are responsible for verifying AI-generated information and understanding their work. The use of AI during any examination is prohibited and will be considered cheating, which may result in a failing grade (F) in accordance with university regulation

a) Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	CORE Economics	Publisher	CORE	Textbook	Doing Economics (free resource)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the Course – Overview of Doing Economics Projects 7–12 – Excel and Statistics Refresher
Second week	Project 7: Supply and Demand (1/2) – Drawing supply and demand diagrams – Interpreting supply and demand curves
Third week	Project 7: Supply and Demand (2/2) – Drawing supply and demand diagrams – Interpreting supply and demand curves * no class on 17th Sep due to Chuseok holidays. Makeup classes will be announced later.
Fourth week	Project 8: Measuring the Non-Monetary Cost of Unemployment Cleaning and summarizing the data (1/2) – Visualizing the data – Confidence intervals for difference in the mean
Fifth week	Project 8: Measuring the Non-Monetary Cost of Unemployment Cleaning and summarizing the data (2/2) – Visualizing the data – Confidence intervals for difference in the mean
Sixth week	Project 9: Credit-Excluded Households in a Developing Country (1/2) – Analyzing households that did not get a loan – Analyzing households that got a loan
Seventh week	Project 9: Credit-Excluded Households in a Developing Country (2/2) – Analyzing households that did not get a loan – Analyzing households that got a loan
Eighth week	Midterm Practical Examination
Ninth week	Project 10: Characteristics of Banking Systems Around the World – Summarizing the data – Comparing financial stability before and after the 2008 global financial crisis
Tenth week	Project 11: Measuring Willingness to Pay for Climate Change Mitigation (1/2) – Summarizing the data – Comparing willingness to pay across methods and individual characteristics
Eleventh week	Project 11: Measuring Willingness to Pay for Climate Change Mitigation (2/2) – Summarizing the data – Comparing willingness to pay across methods and individual characteristics
Twelfth week	Project 12, Part 12.1: Inequality
Thirteenth week	Project 12: Government Policies and Popularity: Hong Kong Cash Handout – Analyzing inequality – Analyzing government popularity
Fourteenth week	Group Project Presentations2
Fifteenth week	Final Practical Examination
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Self Design Seminar		Course Number	0011097001		
Major / School Year	International Business Economics	/ 1	completion division / Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies	/ 권재현	Grades/Lecture/ Practice	1	/ 1	/ 0
Phone Number	0328358722	A weekday / class / lecture room	[14-116:수(7)]			
Office hours	Tue. & Wed. 17:00-18:00		Medium of Instruction	EN		

[1] Outline / Purpose

This course is a tutorial-style seminar designed for freshmen in the International Business Economics (IBE) major. Its primary purpose is to help students understand the structure and objectives of the IBE curriculum, adjust smoothly to university and campus life, and begin forming an informed perspective on academic planning and future career paths. Only IBE students can enrol in this course.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

1. understand the overall structure and academic goals of the IBE curriculum;
2. navigate essential campus resources and university systems;
3. develop a realistic academic plan for their undergraduate studies;
4. reflect on personal interests and potential career pathways related to international business and economics;
5. demonstrate responsible academic attitudes expected of university students.

[3] Class Delivery Method

This course is conducted as a weekly full-class seminar based on discussion, guidance, and structured activities rather than lectures or examinations.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

This course is a 1-credit tutorial seminar evaluated on a Pass / Fail basis. There are no written exams. Student performance will be assessed through attendance and required assignments designed to ensure continuous engagement and reflection throughout the semester.

Attendance will be evaluated in accordance with university regulations. Students who are absent for more than one-third of the total class hours will not receive credit for the course regardless of assignment performance.

Assignments replace midterm and final examinations. A Pass grade requires satisfactory completion of all required assignments and regular attendance throughout the semester. Students who fail to meet these requirements will receive a Fail grade.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Course overview and self-introduction
Second week	Understanding IBE: Past, Present, and Future * We will have a comprehensive meeting with all IBE students.
Third week	Understanding IBE: Past, Present, and Future * We will have a comprehensive meeting with all IBE students.
Fourth week	Study skills and academic adjustment as an IBE freshman Communication skills and professional mindset Campus resources and student life at INU Understanding university regulations and academic responsibilities
Fifth week	Individual consulting
Sixth week	Individual consulting
Seventh week	Individual consulting
Eighth week	Assignment submission and feedback session (replacing midterm exam week)
Ninth week	Individual consulting
Tenth week	Individual consulting
Eleventh week	Individual consulting
Twelfth week	Individual consulting
Thirteenth week	Individual consulting
Fourteenth week	Individual consulting
Fifteenth week	Final assignment submission (replacing final exam week)
Sixteenth week	No class (administrative period)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	elementary level of Korean conversation 1	Course Number	0010127001
Major / School Year	International Business Economics / 1	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[14~218:금(6)(7)] [14~220:월(2)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	elementary level of Korean conversation 2	Course Number	0010132001
Major / School Year	International Business Economics / 1	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[14~218:금(4)(5)] [14~220:월(3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Korean 1		Course Number	0010124001	
Major / School Year	International Business Economics	/ 1	completion division /Grade evaluation	/	
Department/Professor	School of Northeast Asian Studies	/	Grades/Lecture/ Practice	2	/ 1 / 2
Phone Number		A weekday / class / lecture room	[14-219:목(4)] [14-224:화(2)(3)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

Learning Korean from basic.

This lecture is for the students who do not know Korean at all, or very basic level.

[2] Course Learning Outcomes

This lecture starts from the Korean alphabet.

You can learn how to read and write Korean. Also, you will learn Korean numbers, and basic Korean conversation.

[3] Class Delivery Method

The lecture is conducted in English, but if the more words and grammars you learn, the more I will use Korean.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

attendance 20%

midterm 30%

final 30%

assignment 10%

class participation 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	서울대학교 언어교육원	Textbook	서울대학교 한국어 student's book 1B	Issued year	
(2)	Author		Publisher	서울대학교 언어교육원	Textbook	서울대학교 한국어 workbook 1B	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation&Alphabet(vowel)
Second week	Alphabet(consonant)
Third week	lesson 1. 안녕하세요?/greeting, introducing
Fourth week	lesson 2. 이것은 뭐예요?/noun
Fifth week	lesson 3. 한국어를 공부해요./verb
Sixth week	lesson 3. 한국어를 공부해요./verb
Seventh week	lesson 4. 어디에 있어요?/place
Eighth week	Midterm exam
Ninth week	lesson 5. 주말에 친구를 만났어요./number, date
Tenth week	lesson 5. 주말에 친구를 만났어요./number, date
Eleventh week	lesson 6. 얼마예요?/number, price
Twelfth week	lesson 6. 얼마예요?/number, price
Thirteenth week	lesson 7. 날씨가 어떻습니까?/season, weather
Fourteenth week	lesson 8. 영화 볼까요?/suggestion
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Korean 2		Course Number	0010130001	
Major / School Year	International Business Economics	/ 1	completion division /Grade evaluation	/	
Department/Professor	School of Northeast Asian Studies	/	Grades/Lecture/ Practice	2	/ 1 / 2
Phone Number		A weekday / class / lecture room	[14-117:화(9)] [14-219:목(2)(3)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

Students who know nothing about Korean can read and write Korean through this class.

[2] Course Learning Outcomes

start from alphabet, basic verbs and adjectives to make very basic sentences. And also learning expression to introduce myself, buy something and so on.

[3] Class Delivery Method

offline lecture

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	20 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	40 %	0 %	10 %	10 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	서울대학교 언어교육원	Textbook	서울대학교 한국어 1B student book	Issued year	2013
(2)	Author		Publisher	서울대학교 언어교육원	Textbook	서울대학교 한국어 1B workbook	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Korean alphabet 1
Third week	Korean alphabet 2
Fourth week	Lesson1. ?(hello?)–greetings,nationality,occupation
Fifth week	Lesson2. ?(what is this?)–school supplies, daily goods
Sixth week	Lesson3. .(I study korea)–verb1, place1
Seventh week	Lesson4. ?(where is it?)–place2, location
Eighth week	Midterm exam
Ninth week	Lesson5. (I met my friend over the weekend)–numbers1, date, day
Tenth week	Lesson5. (I met my friend over the weekend)–past tense, verb2
Eleventh week	Lesson6. ? (how much is it?)–food, numbers2
Twelfth week	Lesson6. ? (how much is it?)–unit noun, money
Thirteenth week	Lesson7. ?(How is the weather?)–weather and seasons, adjective1
Fourteenth week	Lesson8. ?(shall we watch a movie?)–leisure activities
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Intermediate level of Korean conversation 1		Course Number	0010129001	
Major / School Year	International Business Economics	/ 2	completion division /Grade evaluation	/	
Department/Professor	School of Northeast Asian Studies	/	Grades/Lecture/ Practice	2	/ 1 / 2
Phone Number		A weekday / class / lecture room	[14~219:목(7)(8)] [14~224:화(4)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

This course is an elective course for third year students who majored in the School of Northeast Asian studies. This course is for students who have studied Korean for 6 months or more.

[2] Course Learning Outcomes

This class is level 3 of the Korean Language Proficiency Test and aims to enable natural conversation in Korean. Students can learn about Korean university life, holidays, traditional musical instruments and clothes and marriage culture and learn words and expressions related to them.

[3] Class Delivery Method

ONLY KOREAN. While in class, you can't use cell phones.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

midterm(paper, interview) 30%

final(paper, interview) 30%

attendance 20%

quiz 10%

assignment 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	서울대학교 언어교육원	Textbook	서울대 한국어 2B Student book, Workbook	Issued year	
(2)	Author		Publisher	서강대학교	Textbook	서강대학교 대학한국어 쓰기1	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	10과. 뭐 먹을래?/식당,카페 추천하기
Second week	11과. 운동을 좀 해 보는 게 어때요?/증상 설명하기, 건강한 생활습관 이야기하기
Third week	12과. 저는 좀 조용한 편이에요/외모 묘사하기, 성격 이야기하기
Fourth week	13과. 주변이 조용해서 살기 좋아요/주거 조건 설명하기, 집 구하기
Fifth week	14과. 여기서 사진을 찍어도 돼요?/문화 차이, 경험 이야기하기
Sixth week	15과. 한국 생활에 익숙해졌어요/고향의 변화, 인생 그래프
Seventh week	16과. 설날에는 밥 대신 떡국을 먹어요/명절, 공휴일
Eighth week	17과. 비행기를 놓칠 뻔했어요/문제상황, 분실물 찾기
Ninth week	중간고사
Tenth week	발표-격식체
Eleventh week	글쓰기-쓰기체
Twelfth week	발표문 쓰기
Thirteenth week	PPT 작성법
Fourteenth week	PPT 작성하기
Fifteenth week	기말발표
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Intermediate level of Korean conversation 2		Course Number	0010135001	
Major / School Year	International Business Economics	/ 2	completion division /Grade evaluation	/	
Department/Professor	School of Northeast Asian Studies	/	Grades/Lecture/ Practice	2	/ 1 / 2
Phone Number		A weekday / class / lecture room	[14-116:화(6)(7)] [14-219:목(6)]		
Office hours			Medium of Instruction	EN	

[1] Outline / Purpose

본 강의는 외국인 유학생들을 대상으로 하는 IBE전공 3학년 전공 선택 강의이다.
IBE전공 한국어 수업 중 가장 높은 수준의 수업이며 한국어를 2년 이상 공부한 학생들을 대상으로 한다.
중급 수준의 한국어회화와 문법을 공부함으로써 한국어로 자연스러운 대화를 할 수 있으며,
한국어 실력을 바탕으로 한국 대학 생활을 이해하고 적응하는 것을 목적으로 한다.

[2] Course Learning Outcomes

본 수업에서는 토픽 3급 수준의 한국어 실력을 기르는 것을 목표로 한다.
간접화법/피동/사동 표현을 사용하여 자연스러운 한국어를 구사할 수 있으며
한국의 결혼/장례/직장생활/학교생활 등의 문화적인 교육을 함께 하여 한국 생활에 대한 이해를 넓히고자 한다.

[3] Class Delivery Method

오프라인 교실 수업으로 진행하며 수업은 80%이상 한국어로 진행된다.
단, 학생들이 수업을 이해하지 못하거나 질문이 있는 경우에 영어로 진행한다.
학생들은 한국어로 발표를 준비해야 하며 수업 자료도 한국어로 배부된다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	서울대학교	Textbook	서울대 한국어 STUDENT BOOK 3A,3B	Issued year	
(2)	Author		Publisher	서울대학교	Textbook	서울대 한국어 WORKBOOK 3A,3B	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

기타 유인물

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	1과. 신입생 환영회를 한다고 해요.- 대학 생활과 문화
Third week	2과. 방을 바꿔 달라고 해 봐- 습관과 버릇
Fourth week	간접화법 1(-다고 하다/-라고 하다)
Fifth week	3과. 비가 이렇게 많이 올 줄 몰랐어요- 날씨
Sixth week	간접화법 2(-냐고 하다/-자고 하다)
Seventh week	4과. 먹어 보니까 맛있던데요- 음식과 요리, 조리법
Eighth week	중간고사
Ninth week	5과. 입어 보고 살걸 그랬어요- 한국의 사이즈, 물건 구매/교환/환불하기
Tenth week	6과. 일요일에는 아무 약속도 없어요.- 장소와 약속
Eleventh week	피동(-이/히/리/기)
Twelfth week	7과. 껴다가 다시 켜 보세요.- 고장과 수리
Thirteenth week	8과. 교통사고가 났다고요?- 사건/사고, 문병
Fourteenth week	0과. 한글날에 대해 들어 봤어요?- 기념일과 공휴일
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTRODUCTORY ECONOMICS 1	Course Number	0008815001
Major / School Year	International Business Economics / 2	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room [14-220:화(4-5A),수(4-5A)]		
Office hours	Medium of Instruction EN		

[1] Outline / Purpose

This is an introductory undergraduate course that teaches the fundamentals of economic concepts and issues. Introductory Economics is designed for one year and this is the first course covering Microeconomics. This course introduces a framework for behaviors of consumers and firms. We also analyze economic decisions and explore more advanced topics in the economy.

[2] Course Learning Outcomes

This course provides a solid foundation for economic thinking and analysis. Students become competent in the basic terminology and methodology in Economics.

[3] Class Delivery Method

Lecture and Discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

95-100 A+

90-94 A

85-89 B+

80-84 B

75-79 C+

70-74 C

65-69 D+

60-65 D

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	N. Gregory Mankiw	Publisher	Cengage	Textbook	Principles of Economics (10E)	Issued year	2023
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Introduction Chapter 1: Ten Principles of Economics
Second week	Chapter 2: Thinking Like an Economist
Third week	Chapter 3: Interdependence and the Gains from Trade
Fourth week	Chapter 4 :The Market Forces of Supply and Demand
Fifth week	Chapter 5: Elasticity and Its Application
Sixth week	Chapter 6: Supply, Demand, and Government Policies
Seventh week	Chapter 7: Consumers, Producers, and the Efficiency of Markets
Eighth week	Midterm exam
Ninth week	Chapter 10: Externalities Chapter 11: Public Goods and Common Resources
Tenth week	Chapter 14: The Costs of Production
Eleventh week	Chapter 15: Firms in Competitive Markets
Twelfth week	Chapter 16: Monopoly
Thirteenth week	Chapter 17: Monopolistic Competition
Fourteenth week	Chapter 18: Oligopoly
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	INTRODUCTORY ECONOMICS 2		Course Number	0008817001		
Major / School Year	International Business Economics	/ 2	completion division / Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies	/ 정승호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[14-219:월(7-8A),수(7-8A)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course introduces students to the fundamental principles of economics, focusing on macroeconomic concepts. Using Mankiw's "Principles of Economics," 9th edition, students will explore key topics such as national income, economic growth, money and banking, unemployment, inflation, and macroeconomic policy. The course aims to provide students with a solid understanding of economic principles and their application in real-world situations.

[2] Course Learning Outcomes

1. Develop a solid understanding of key macroeconomic concepts, principles, and models, and apply these to analyze economic issues and policies.
2. Cultivate critical thinking and analytical skills to evaluate economic performance and the effects of fiscal and monetary policies, while developing basic economic reasoning skills and improving economic literacy.
3. Develop confidence and proficiency in reading and understanding the economics and business sections of major newspapers and magazines, and articulate informed opinions on macroeconomic issues.

[3] Class Delivery Method

Lectures and Class discussions

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

The assignment grade (20%) will be determined by four in-class quizzes, each worth 5% of the final grade. Each quiz will generally cover three to four chapters and is intended to help students review key concepts and prepare for the midterm and final examinations. Cheating or other academic misconduct on any examination or quiz may result in a failing grade (F) for the course in accordance with university regulations.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	N. Gregory Mankiw	Publisher		Textbook	Mankiw, N. Gregory. Principles of Economics, 9th Edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introductions
Second week	Chapter 23: Measuring a Nation's Income –Introduction to GDP –The components of GDP
Third week	Chapter 24: Measuring the Cost of Living –The Consumer Price Index (CPI) –Inflation and cost of living adjustments
Fourth week	Chapter 25: Production and Growth –Economic growth and productivity –The role of technology and education in growth * In-class Quiz 1
Fifth week	Chapter 26: Saving, Investment, and the Financial System –The market for loanable funds –The role of financial institutions
Sixth week	Chapter 27: The Basic Tools of Finance –Present value and future value –Risk and diversification
Seventh week	Chapter 28: Unemployment –Types of unemployment –Natural rate of unemployment and cyclical unemployment * In-class Quiz 2
Eighth week	Mid-term Exam
Ninth week	Chapter 29: The Monetary System –Functions of money –The Federal Reserve System
Tenth week	Chapter 30: Money Growth and Inflation –Quantity theory of money –The costs of inflation
Eleventh week	Chapter 31: Open-Economy Macroeconomics: Basic Concepts –The balance of payments –Exchange rates and their determination
Twelfth week	Chapter 32: A Macroeconomic Theory of the Open Economy –The market for foreign-currency exchange –The effects of government policies on an open economy *In-class Quiz 3
Thirteenth week	Chapter 33: Aggregate Demand and Aggregate Supply –The aggregate demand curve –The aggregate supply curve and its determinants
Fourteenth week	Chapter 34: The Influence of Monetary and Fiscal Policy on Aggregate Demand –The role of fiscal policy –The role of monetary policy
Fifteenth week	Chapter 35: The Short-Run Trade-off Between Inflation and Unemployment –The Phillips curve –Expectations and the trade-off * In-class Quiz 4
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third	assignment		submission date	
	purpose			

assignment	procedure & notice	
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	International Business		Course Number	0011554001		
Major / School Year	International Business Economics	/ 2	completion division /Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies	/ 차형석	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[14-219:월(4)(5)(6)]			
Office hours	after class		Medium of Instruction	EN		

[1] Outline / Purpose

International management is an important area of study and practice in today's interconnected and globalized business world. Areas ranging from understanding international economics, transnational business practices, ethical decision-making and leadership skills to navigating the complex environment of global supply chain management and international trade agreements are covered.

[2] Course Learning Outcomes

International management is an important area of study and practice in today's interconnected and globalized business world. Areas ranging from understanding international economics, transnational business practices, ethical decision-making and leadership skills to navigating the complex environment of global supply chain management and international trade agreements are covered. This extensive knowledge base is essential for any individual or organization that wants to succeed in the global marketplace.

[3] Class Delivery Method

text books, videos and audio

④ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	0 %	0 %	0 %	10 %	0 %	0 %

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1. Review of the class
2. Quiz
3. Individual projects
4. Team projects

⑥ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Thomas S. Bateman and Scott A. Snell	Publisher	Management: Leading & Collaborating in a Competitive World	Textbook	International Business Management	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to international business.
Second week	Differences between domestic and international management.
Third week	Understanding cultural diversity and its impact on management.
Fourth week	Social influences on international business.
Fifth week	The role of communication in international management.
Sixth week	Overcoming language and cultural barriers.
Seventh week	The dynamics of international trade. Role of WTO and regional trade agreements.
Eighth week	Mid-term Examination
Ninth week	Influence of government policies and regulations on international business. Legal considerations in international management.
Tenth week	Influence of government policies and regulations on international business.
Eleventh week	Understanding exchange rates and currency risk. Strategies for managing international financial risks.
Twelfth week	Organizational structure and control in multinational corporations. / Developing and implementing strategy in an international context.
Thirteenth week	International production and operations management. Quality control in international operations.
Fourteenth week	Review of course materials. Discussion of final exam format and expectations.
Fifteenth week	Final Examination
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Financial Mathematics		Course Number	0011542001		
Major / School Year	International Business Economics	/ 2	completion division /Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies	/ 권재현	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number	0328358722	A weekday / class / lecture room	[14-116:화(8B-9),수(0A1-2A)]			
Office hours	Tue. & Wed. 14:00-15:00		Medium of Instruction	EN		

[1] Outline / Purpose

This course introduces core single-variable calculus concepts essential for business, finance, and applied economics through a flipped learning format.

Instead of relying solely on in-class lectures, students are required to study foundational material independently using Khan Academy – AP®/College Calculus BC, while classroom time is devoted to review, clarification, and application.

The primary objective of the course is to help students develop the ability to apply calculus-based reasoning to financial, business, and economic problems such as marginal analysis, optimization, accumulation/discounting, growth processes, and approximation methods (e.g., Taylor polynomials/series) that are commonly used in quantitative finance and economics.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

1. understand the fundamental concepts of single-variable calculus (limits, derivatives, integrals) covered in AP/College Calculus BC;
2. apply derivatives and integrals to basic problems in finance, business, and economics (optimization, marginal analysis, accumulation);
3. interpret mathematical results in economic and financial contexts using correct units and economic meaning;
4. model and solve simple growth/accumulation problems using differential equations (as needed for financial/economic applications);
5. use Taylor polynomials/series as approximation tools for interpreting and simplifying functions used in economics and finance;
6. develop independent learning skills appropriate for quantitatively intensive courses.

[3] Class Delivery Method

This course is conducted using a flipped learning model.

– Before class: Students must watch the assigned videos and complete the practice exercises from Khan Academy – AP®/College Calculus BC.

– In class: Each session begins with a pop-up quiz, followed by guided problem solving and discussion of application-oriented questions related to business, economics, and finance.

Method of Teaching

- Lecture: Mini-lectures focused on reviewing online video content
- Discussion: Yes (emphasis on problem-solving discussion and conceptual clarification)
- Practice / Problem Solving: Primary method
- Audiovisual Materials: Online video lectures (Khan Academy)

* The University LMS will be used as the primary platform for course management. Google Classroom or other educational technologies may be used occasionally for convenience.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	40 %	0 %	0 %	50 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	0 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

This course is evaluated using letter grades, based on a 100-point total score. The raw score is calculated on a 100-point scale, where the components below sum to a maximum of 100 points (100%).

Student performance is assessed through attendance, in-class quizzes, assignments, and examinations. Due to the flipped-learning structure, regular participation and steady progress are required to receive a Pass grade.

Attendance will be evaluated in accordance with university regulations. Students who are absent for more than one-third of the total class hours will not receive credit for the course regardless of quiz or exam performance.

Final letter grades will be assigned based on the total score (out of 100 points) accumulated across all evaluation components.

Midterm-Final Override Rule (Incentive Policy): To encourage continuous learning and improvement, if a student's final exam score (converted to a 100-point scale) is higher than the midterm exam score (converted to a 100-point scale), the final exam score will replace the midterm exam score in the total score calculation. If the final exam score is lower than the midterm exam score, the original midterm score will be retained. In this sense, the final examination functions as an option on the midterm, borrowing terminology from financial markets.

Students who fail to demonstrate minimum competency or engagement may receive a failing grade.

③ Percentage of grade evaluation

Exam		Attendance		Assignment	
50	%	20	%	30	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	https://www.khanacademy.org/math/ap-calculus-bc	Textbook	Khan Academy – AP®/College Calculus BC	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Carl P. Simon & Lawrence Blume	Publisher	W. W. Norton & Company	Textbook	Mathematics for Economists	Issued year	
(2)	Author	Alpha C. Chiang & Kevin Wainwright	Publisher	McGraw-Hill	Textbook	Fundamental Methods of Mathematical Economics,	Issued year	
(3)	Author	Serge Lang	Publisher	Springer	Textbook	A First Course in Calculus	Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1. [Classroom, 9/1] Course introduction; orientation to flipped learning and Khan Academy AP/College Calculus BC 2. Assignment [Online] Unit 1 – Limits and continuity (1/2)
Second week	1. Review [Classroom, 9/8] Unit 1 (1/2) 2. Assignment [Online] Unit 1 – Limits and continuity (2/2)
Third week	1. Review [Classroom, 9/15] Unit 1 (2/2) 2. Assignment [Online] Unit 2 – Differentiation: definition and basic derivative rules (1/2)
Fourth week	1. Review [Classroom, 9/22] Unit 2 (1/2) 2. Assignment [Online] Unit 2 – Differentiation: definition and basic derivative rules (2/2)
Fifth week	1. Review [Classroom, 9/29] Unit 2 (2/2) 2. Assignment [Online] Unit 5 – Applying derivatives to analyze function (1/2)
Sixth week	1. Review [Classroom, 10/6] Unit 5 (1/2) 2. Assignment [Online] Unit 5 – Applying derivatives to analyze function (2/2)
Seventh week	Review [Classroom, 10/13] Unit 5 (2/2)
Eighth week	1. [Classroom, 10/20] Midterm Examination 2. Assignment [Online] Unit 6 – Integration and accumulation of change (1/2)
Ninth week	1. Review [Classroom, 10/27] Unit 6 (1/2) 2. Assignment [Online] Unit 6 – Integration and accumulation of change (2/2)
Tenth week	1. Review [Classroom, 11/3] Unit 6 (2/2) 2. Assignment [Online] Unit 8 – Applications of integration (1/2)
Eleventh week	1. Review [Classroom, 11/10] Unit 8 (1/2) 2. Assignment [Online] Unit 8 – Applications of integration (2/2)
Twelfth week	1. Review [Classroom, 11/17] Unit 8 (2/2) 2. Assignment [Online] Unit 9 – Parametric equations, polar coordinates, and vector-valued functions (1/2)
Thirteenth week	1. Review [Classroom, 11/24] Unit 9 (1/2) 2. Assignment [Online] Unit 9 – Parametric equations, polar coordinates, and vector-valued functions (2/2)
Fourteenth week	Review [Classroom, 12/1] Unit 9 (2/2)
Fifteenth	

week	[Classroom, 12/8] Final Examination
Sixteenth week	No class (administrative period)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Principles of Financial Accounting	Course Number	0011555001
Major / School Year	International Business Economics / 2	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-220:수(2B-3),목(4-5A)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course provides an introduction to the concepts and uses of financial accounting information in a business environment and its role in the economic decision-making process. Accounting is referred to as the language of business.

[2] Course Learning Outcomes

Students will understand (1) how to record basic financial accounting information and prepare financial statements and (2) how to use financial accounting data in decision-making situations.

[3] Class Delivery Method

Lecture and Discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Weygandt, Kimmel, and Kieso	Publisher	Wiley	Textbook	Financial Accounting with International Financial Reporting Standards	Issued year	2023
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Chapter 1: Accounting in Action
Second week	Chapter 2: The Recording Process
Third week	Chapter 3: Adjusting the Accounts Chapter 4: Completing the Accounting Cycle
Fourth week	Chapter 5: Accounting for Merchandise Operations
Fifth week	Chapter 6: Inventories
Sixth week	Chapter 7: Fraud, Internal Control, and Cash Chapter 8: Accounting for Receivables
Seventh week	Chapter 9: Plant Assets, Natural Resources, and Intangible Assets
Eighth week	Midterm Exam
Ninth week	Chapter 10: Current Liabilities
Tenth week	Chapter 11: Non-Current Liabilities
Eleventh week	Chapter 12: Corporations: Organization, Share Transactions, and Equity
Twelfth week	Chapter 13: Investments
Thirteenth week	Chapter 14: Statement of Cash Flows
Fourteenth week	Review week
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	International Relations		Course Number	0011550001		
Major / School Year	International Business Economics	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Political Science & Int'l Relations		Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[14-116:목(7)(8)(9)]			
Office hours	before and after the class		Medium of Instruction	EN		

[1] Outline / Purpose

COURSE OUTLINE

The course addresses international relations in the 21st century for IBE majors.

The course examines major theories and key issues of the 21st century international relations.

Major theories cover Realist, Liberalist, and Constructivist perspective as guideline to understand contemporary international relations.

Key issues include both traditional issues like war, peace, security, alliance, IOs, and nontraditional issues like trade, finance, environment, technology, disasters, and refugees in contemporary international relations.

Students try to understand key issues of contemporary international relations guided by theoretical perspectives.

[2] Course Learning Outcomes

EVALUATION

Both Mid and Term exam will be based on Lecture Notes; Students are required to understand the contents of Lecture Notes; Students will also present two times as in syllabus and a homework;

Evaluation will be based on Mid and Final Exam, Presentation 1 & 2, and attendance and participation;

[3] Class Delivery Method

CLASS OUTLINE

Every class will start with questions by students on Lecture Note, which I will upload every week at e-Learning;

Followed by my lecture on the topic based on Lecture Note;

Students will download, read, and bring Lecture Note every week, and add your own notes;

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	10 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	10 %	10 %	0 %	0 %

[4] Grading Policies

Mid Exam 30% + Final Exam 30% + Presentations and Homework 30% + Attendance and Participation 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	LECTURE NOTES uploaded every week at e-learning	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Cynthia Weber	Publisher	Routledge	Textbook	International Relations Theory: A Critical Introduction (e-book at university library)	Issued year	2005
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and Assignments
Second week	Realism in IR Theories
Third week	Liberalism in IR Theories
Fourth week	Constructivism in IR Theories
Fifth week	Presentation 1: IR Theories by Films Realist Perspective from [Lord of the Flies] Liberalist Perspective from [Independence Day] Constructivist Perspective from [Wag the Dog] Reference: Cynthia Weber, International Relations Theory: A Critical Introduction (e-book at University Library)
Sixth week	Security and Alliance
Seventh week	Mid Exam
Eighth week	Non-Traditional Security and Terror
Ninth week	Nuclear Weapons
Tenth week	Presentation 2: Technology in IR
Eleventh week	Trade and Finance
Twelfth week	Environment
Thirteenth week	Disasters and Refugees
Fourteenth week	Global Governance: UN, WTO, IOs, Institutions, Regimes
Fifteenth week	Final Exam
Sixteenth week	Make-up, if necessary

[7] Assignments

The first assignment	assignment	Homework: Realist Strategist in Your National History	submission date	
	purpose	Understanding Realism in practice		
	procedure & notice	After learning Realist perspective in IR theories, choose any figure/politician/strategist in your national history, who you think is a realist strategist, tell us why do you think he/she was a realist strategist, and upload it at e-Learning;		
	references			
The second assignment	assignment	Presentation 1: IR Theories by Films	submission date	
	purpose	Understanding IR Theories in practice		
	procedure & notice	Watch the assigned film, Write an essay on related IR theory, Present it during the class and Upload it at e-Learning;		
	references			
The third	assignment	Presentation 2: Technology in IR	submission date	
	purpose	Understanding the impacts of technologies on IR		

assignment	procedure & notice	Choose a specific topic on Technology in IR with consultation with me, Write an essay, Present it during the class, and Upload it at e-Learning;
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Statistics for Business Economics	Course Number	0011544001
Major / School Year	International Business Economics / 2	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 권재현	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	0328358722	A weekday / class / lecture room	[14-116:수(8B-9),목(0A1-2A)]
Office hours	Tue. & Wed. 14:00-15:00	Medium of Instruction	EN

[1] Outline / Purpose

This course provides students with a solid foundation in probability and statistics for applications in business economics through a flipped-learning format. Core concepts are learned independently through Khan Academy – Statistics and Probability, while the in-person session is used for clarification, discussion, and applied problem solving in business/economic contexts.

By the end of the semester, students will be able to understand uncertainty, summarize and interpret data, and apply statistical inference (estimation and hypothesis testing) to support decision-making in business and economics.

[2] Course Learning Outcomes

By the end of this course, students will be able to

1. explain fundamental concepts of probability and statistics;
2. summarize, visualize, and analyze data using appropriate descriptive statistics;
3. use basic probability models and random variables to frame business/economic uncertainty;
4. conduct basic statistical inference (estimation and hypothesis testing) and interpret results;
5. communicate statistical reasoning clearly for decision-making in business and economics.

[3] Class Delivery Method

This course adopts a flipped learning model.

1. Active in-person (offline) class meeting: Wednesdays 16:30-17:45 (the only regular face-to-face session).
2. Second scheduled time slot (administrative): 18:00-19:15, Thursday, is listed on the timetable for administrative purposes and is NOT an active weekly meeting time. If an official exam schedule requires use of this slot, it will be announced in advance. We meet ONLY on WEDNESDAYS!

Before Wednesday (asynchronous, at your convenience): Students are required to watch assigned videos and complete practice exercises from Khan Academy – Statistics and Probability.

During Wednesday class (offline): Each session includes a pop-up quiz followed by guided discussion and problem solving with applications from business and economics.

The course follows the Khan Academy units sequentially; due to the cumulative and practice-intensive nature of statistics, consistent pre-class preparation is essential.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	40 %	0 %	0 %	50 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

This course is evaluated using letter grades based on a 100-point total raw score.

The grading components are:

- Exams (Midterm + Final): 50%
- Attendance: 20%
- Assignments / Quizzes: 30%
- Attendance / credit rule: Students who are absent for more than one-third of the total class hours will not receive credit for the course regardless of other scores.

Midterm-Final Override Rule (Incentive Policy): If a student's final exam score (converted to a 100-point scale) is higher than the midterm exam score (converted to a 100-point scale), the final exam score replaces the midterm exam score in the raw score calculation; otherwise, the midterm score is retained (The final effectively functions as an "option" on the midterm.).

Final exam coverage: The final examination is non-cumulative and covers only the material taught after the midterm.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	https://www.khanacademy.org/math/statistics-probability	Textbook	Khan Academy – Statistics and Probability	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	DeGroot, M. H. & Schervish, M. J.	Publisher	Pearson	Textbook	Probability and Statistics,	Issued year	
(2)	Author	Hogg, R. V., McKean, J. W., & Craig, A. T.	Publisher	Pearson	Textbook	Introduction to Mathematical Statistics	Issued year	
(3)	Author	McClave, J. T., Benson, P. G., & Sincich, T.	Publisher	Pearson	Textbook	Statistics for Business and Economics	Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Additional examples and datasets will be provided by the instructor as needed.

[6] Weekly lesson plans

First week	1. [Classroom, 9/2] Course introduction: Orientation to flipped learning and Khan Academy 2. Assignment [Online] Unit 3 – Summarizing quantitative data
Second week	1. Review [Classroom, 9/8] Unit 3 2. Assignment [Online] Unit 4 – Modeling data distributions
Third week	1. Review [Classroom, 9/15] Unit 4 2. Assignment [Online] Unit 5 – Exploring bivariate numerical data
Fourth week	1. Review [Classroom, 9/22] Unit 5 2. Assignment [Online] Unit 8 – Counting, permutations, and combinations
Fifth week	1. Review [Classroom, 9/29] Unit 8 2. Assignment [Online] Unit 7 – Probability (1/2)
Sixth week	1. Review [Classroom, 10/6] Unit 7 (1/2) 2. Assignment [Online] Unit 7 – Probability (2/2)
Seventh week	Review [Classroom, 10/13] Unit 7 (2/2)
Eighth week	1. [Classroom, 10/20] Midterm Examination 2. Assignment [Online] Unit 9 – Random variables (1/2)
Ninth week	1. Review [Classroom, 10/27] Unit 9 (1/2) 2. Assignment [Online] Unit 9 – Random variables (2/2)
Tenth week	1. Review [Classroom, 11/3] Unit 9 (2/2) 2. Assignment [Online] Unit 10 – Sampling distributions
Eleventh week	1. Review [Classroom, 11/10] Unit 10 2. Assignment [Online] Unit 11 – Confidence intervals
Twelfth week	1. Review [Classroom, 11/17] Unit 11 2. Assignment [Online] Unit 12 – Significance tests (hypothesis testing)
Thirteenth week	1. Review [Classroom, 11/24] Unit 12 2. Assignment [Online] Unit 13 – Two-sample inference for the difference between groups
Fourteenth week	Review [Classroom, 12/2] Unit 13
Fifteenth week	[Classroom, 12/9] Final Examination
Sixteenth week	No class (administrative period)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			

	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Business Strategy		Course Number	0011558001		
Major / School Year	International Business Economics	/ 3	completion division /Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies	/ 김윤경	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[14-220:화(2B-3), 목(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course explores the strategic management of businesses operating in the global market. It aims to provide students with a comprehensive understanding of global business environments, the challenges of international competition, and the strategies used by firms to achieve competitive advantage.

[2] Course Learning Outcomes

The objectives of this course are to enhance understanding of global business environments and their complexities, develop the ability to analyze and formulate effective global business strategies, foster skills in identifying and responding to international market opportunities and threats, improve cross-cultural communication and management abilities, understand the principles of corporate governance and their impact on global businesses, and promote awareness of business ethics and responsible management practices in a global context.

[3] Class Delivery Method

The course consists of lectures and discussions.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance 20%

Midterm Exam 30%

Final Group Project 30%

Individual Presentation 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Frank T. Rothaermel	Publisher	McGraw Hill	Textbook	Strategic Management (6e)	Issued year	2023
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	1. What Is Strategy?
Third week	2. Strategic Leadership: Managing the Strategy Process
Fourth week	3. External Analysis: Industry Structure, Competitive Forces, and Strategic Groups
Fifth week	4. Internal Analysis: Resources, Capabilities, and Core Competencies
Sixth week	5. Shared Value and Competitive Advantage
Seventh week	6. Business Strategy: Differentiation, Cost Leadership, and Blue Oceans
Eighth week	Midterm Exam
Ninth week	7. Business Strategy: Innovation, Entrepreneurship, and Platforms
Tenth week	8. Corporate Strategy: Vertical Integration and Diversification
Eleventh week	9. Corporate Strategy: Strategic Alliances, Mergers and Acquisitions
Twelfth week	10. Global Strategy: Competing Around the World
Thirteenth week	11. Organizational Design: Structure, Culture, and Control
Fourteenth week	12. Corporate Governance, Business Ethics, and Business Models
Fifteenth week	Final Project Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Business Organization		Course Number	0011560001		
Major / School Year	International Business Economics	/ 3	completion division /Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies	/ 차형석	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class / lecture room	[14-219:월(1)(2)(3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course explores the dynamics within organizations, focusing on the behavior of individuals and groups in organizational settings. Topics include motivation, leadership, communication, group dynamics, organizational culture, conflict resolution, and organizational change. The course combines theoretical frameworks with practical applications, aiming to equip students with the tools and understanding necessary to effectively manage and participate in various organizational environments.

[2] Course Learning Outcomes

The goal of this course in Organizational Behavior is to equip students with the knowledge and skills necessary to understand, predict, and influence individual and group behavior in organizational settings. Specifically, the course aims to:

1. Understand Organizational Behavior:
 - Provide a comprehensive understanding of the factors that influence behavior in organizations, including individual differences, group dynamics, and organizational culture.
2. Apply Theoretical Concepts:
 - Enable students to apply theories and concepts of organizational behavior to real-world situations, fostering the ability to analyze and interpret human behavior in a professional setting.
3. Develop Management Skills:
 - Equip students with management skills such as leadership, communication, conflict resolution, and change management, essential for effective teamwork and organizational success.
4. Enhance Personal Development:
 - Encourage self-awareness and personal development by reflecting on one's own behavior, preferences, and impact on others within an organizational context.
5. Foster Ethical Perspective:
 - Cultivate an understanding of the ethical implications of organizational decisions and actions, promoting responsible and sustainable business practices.
6. Prepare for Future Challenges:
 - Prepare students to face contemporary challenges in organizations, such as globalization, workforce diversity, and the integration of technology, ensuring adaptability and resilience in a rapidly changing work environment.

Through this course, students will not only gain academic knowledge but also practical skills, preparing them to be effective, ethical, and adaptable leaders in various organizational settings.

[3] Class Delivery Method

Lecture and videos

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance, presentation, and attention

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Self-made handouts	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Organizational Behavior: Definition, Need, and Importance
Second week	Detailed Exploration of Organizational Behavior Models
Third week	Review and Discussion of Real-World Applications
Fourth week	Personality and Learning
Fifth week	Behavior Modification, Emotions, and Motivation
Sixth week	Review, Case Studies, and Practical Applications
Seventh week	Organization Structure and Group Formation
Eighth week	Group Decision Making and Team Building
Ninth week	Mid-term
Tenth week	Review, Group Activities, and Discussions
Eleventh week	Understanding Leadership
Twelfth week	Power Dynamics in Organizations
Thirteenth week	Review and Leadership Workshops
Fourteenth week	Organizational Culture and Change
Fifteenth week	Stress and Organizational Development
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
			submission	

The second assignment	assignment		date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Global Environment and Public Problems	Course Number	0007364001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration / 타오	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	8358337	A weekday / class / lecture room	[12-303:화(1-2A)(2B-3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

What are the most pressing problems we humans face today? Climate change? Rising sea levels, increasing storm intensity and frequency, drought and water shortages, migrations of species to new latitudes (including humans), increased frequency and intensity of outbreaks of disease? Increasing levels of toxins in our air, water, soil, and oceans? How much do you know about the ways in which governments are currently preparing for such problems? Would you like to know more? We will cover environmental problems of many kinds, using many different approaches to understand what we can expect, but each approach will be explained in a way that a beginner can understand. In this fashion, students from all majors should be able to follow and understand the course material.

Since this is a course taught exclusively in English, students are expected to have some command of the language. If your English skills are not strong, then you may struggle on the exams, which will only be offered in English. Please make sure that you feel comfortable with the lectures .

[2] Course Learning Outcomes

Student progress will be determined through in-class tests (given during the first period, which will be at 9:00 am this year) and a final project and presentation.

Tests (3, including the final exam):60%

Attendance and participation: 20%.

Final group presentation: 20%

[3] Class Delivery Method

The course has three main objectives: first, to introduce students to the breadth of global environmental problems and climate change; second, to familiarize students with the science behind diagnosing and addressing such problems; and third, to equip students with an understanding of how different governments around the world are address these issues, especially here in South Korea. The course is designed so that each week, we address a different kind of problem, and then talk about attempts to solve it. A word of warning: most problems have NOT been solved. We will also discuss why this is true.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	15 %	30 %	5 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	45 %	0 %	25 %	5 %	0 %	15 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	Read them as best you can.	Textbook	Readings will be posted each week. They are meant to help you understand the lectures.	Issued year	2026
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Houghton Mifflin Harcourt	Publisher	Silent Spring	Textbook	Rachel Carson	Issued year	1960
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	What are "global environmental public problems"? And why are they your problems? What is South Korea's role? Who are the global players for global environmental problems? What can we learn from the earth's long history? And what can we learn by looking at our own history? (September 1)
Second week	2 degrees Centigrade--why is this important? The global warming problem and what causes it: What can be done to reduce Green House Gases (GHGs)? -Energy and power production -Transportation -Technological innovation (AI and data centers)
Third week	The role of agriculture on a global scale The fight over pesticides and accumulation. The Green Revolution Genetically modified organisms--GMOs--what are they, why do we have them, and are they beneficial or dangerous?
Fourth week	The hole in the ozone layer--where is it? Why should we worry? The Montreal Protocol and what it's done. Enjoy your Chuseok!
Fifth week	Ocean issues-- Melting ice caps and rising sea levels--who will lose? REVIEW FOR FIRST TEST
Sixth week	TEST ONE--First hour and fifteen minutes (9:00 am - 10:15: October 6th) THEN let's go to the shore! Ocean resources--The Law of the Sea, or why the international language of space exploration is Russian. Fish, undersea minerals and oil--what happens if we don't manage what's there? The impact of competition and depletion. temperature, currents and weather. Is South Korea prepared?
Seventh week	Fresh water--How much is left? (October 13th) How are we using what we have? How clean is our fresh water? What are water wars? And how might they destabilize vulnerable countries?
Eighth week	Tourism and its pressures on vulnerable environments around the world. How much does tourism contribute to environmental degradation? What are countries where the impact is high doing about it? Guest speaker: Prof. Gema Perez Tapia, University of Malaga.
Ninth week	Energy production--how does it affect the climate, and how do we balance energy production with economic growth?
Tenth week	We're not the only ones here: biodiversity and species extinction--the "other" climate crisis. REVIEW FOR TEST TWO!!
Eleventh week	TEST TWO --First hour and fifteen minutes (9:00 am -10:15 am, November 10th) After test, don't forget to stay for new lecture: Fast fashion--what is it and why should we care?
Twelfth week	Solutions to problems: How does Incheon City deal with waste? How does a circular economy work? Is it possible in a high waste society? Examples from near and far
Thirteenth week	Solutions to problems: does a business model have to ignore environmental issues in order to be successful? What can a business model do to incorporate GHG reduction strategies? Examples from industry (LUSH and the Body Shop).
Fourteenth week	Presentations and Review for Final Exam (December 1st)
Fifteenth week	FINAL EXAM (Two hours--9:30am - 11:30 pm December 8th)
Sixteenth week	Makeup classes if necessary.

[7] Assignments

The first assignment	assignment	First in-class exam	submission date	2026-10-06 Tue
	purpose			
	procedure & notice	This exam is worth 20% of your final grade and will cover the material from the first 5 classes. You will have 75 minutes to complete and submit the in-class test. It will be conducted in English.		
	references			
The second assignment	assignment	Second in-class exam	submission date	2026-11-10 Tue
	purpose			
		This exam is worth 20% of your final grade and will cover the material from the		

	procedure & notice	6th week of class to the 10th week of classes. You will have 75 minutes to complete and submit the test.		
	references			
The third assignment	assignment	FINALexam	submission date	2026-12-08 Tue
	purpose			
	procedure & notice	FINAL EXAM--Covers everything.		
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Film and Media Studies	Course Number	0009089001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	A weekday / class / lecture room	[12-406:수(6)(7)(8)]	
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course provides an introduction to a range of approaches to viewing and analyzing films from the languages, aesthetics, and cultures of cinema. You will build vocabulary of film form and learn to construct an argument about what a film's sounds and images mean and how it structures and achieves its meaning, with a brief overview of the study of film genre, film history, and film theory.

Special attention will be paid to writing about film, and this course will develop the critical thinking and writing skills needed for academic film analysis. By the end of the course, students will be able to define and employ terms and concepts fundamental to film studies, and ultimately write analytical essays that show an understanding of film form and culture.

[2] Course Learning Outcomes

1. To learn the fundamentals required for film study.
2. To understand the basic terms and techniques needed for discussing film.
3. To apply these terms and techniques descriptively and functionally in film analysis.
4. To read and interpret films in their cultural contexts.
5. To articulate your understanding of film and filmmaking knowledgeably and effectively, through both written and oral presentations, and thereby to create well-organized, thoughtful critical analyses of films viewed.
6. To form an intellectually challenging, supportive, and fun classroom community of viewers, readers, writers, and learners.

[3] Class Delivery Method

Lecture, Discussion, Viewing films, Analysis and Presentations
Taught fully in ENGLISH (NO Korean)

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	10 %	10 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	10 %	0 %	10 %	0 %

[4] Grading Policies

Please refer to paper syllabus provided on first day of lecture

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Barsam, R. M., & Monahan, D.	Publisher	Norton & Company	Textbook	Looking at Movies: An introduction to film.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Hornaday, Ann	Publisher		Textbook	Talking Pictures: How to Watch Movies	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Topics: Exploring the work and assumptions of cinematic language; becoming a critical viewer; seeing film through the lens of a filmmaker
Second week	Topics: Principles of film form: Analyzing film in relation to form and content: verisimilitude; manipulation of time and space
Third week	Topics: Genres and elements of narrative; script format
Fourth week	Topics: Elements of a story
Fifth week	Topics: Thinking about images: Exploring visual design; mise-en-scene; elements of design; composition & kinesic
Sixth week	Topics: Thinking about moving images: Exploring cinematography; the relationship of people and things to one another in film; implied proximity; depth; camera angles and movement; speed and length of shot
Seventh week	Topics: Documentary: Exploring film history; aesthetics, technology, economics and social history
Eighth week	Topic: Group Presentation
Ninth week	Topics: Acting and aspects of performance; styles and influences
Tenth week	Topics: Editing
Eleventh week	Topics: Sounding out the image: exploring sound and dialogue; juxtaposition and meaning, duration, pace and rhythm, transitions; the relationship of sound to image, diegetic vs. non-diegetic, recording techniques, sound design
Twelfth week	Topics: effects of Social Media
Thirteenth week	Topics: The Relationship of the viewer to the film; audience demographics; film as moral, philosophical, or social statements; film as emotional or sensual experience and Asian representation in film and media,
Fourteenth week	Presentation
Fifteenth week	Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Tell a story in 6 photos and story board	submission date	
	purpose	Structure and composition of story and visualize the organize the composition		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose	fundamental concepts of narrative story structure within a screenplay		
	procedure & notice			
	references			
The third assignment	assignment	Critical review Paper	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introductory College Writing		Course Number	0009081001			
Major / School Year	Faculty of Liberal Education / 전학년		completion division / Grade evaluation	/			
Department/Professor	/ 피터 래버		Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number	01077279479	A weekday / class / lecture room	[12-107:목(2)(3)(4)]				
Office hours	By Request		Medium of Instruction	EN			

[1] Outline / Purpose

The principal goal of this course is, most obviously, to help you to improve and fine-tune your writing skills. Its more subtle goal is to enable you to see the extent to which your perception of the "world" is determined by language, and to help you to use language in ways essential to discovery, to learning, and to knowing. Thus, Introductory College Writing is, first and foremost, a survival course in that it teaches you the writing skills that will improve your chances of success in any field of study or occupation. More immediately, this class is designed to prepare you to handle the writing assignments you will be given during your career at INU. Only in successfully completing the writing assignments in your courses (and, quite naturally, also in this course) will you be able to "survive" at INU and graduate with strong qualifications for the job world. Welcome and enjoy!

[2] Course Learning Outcomes

As the title of this course suggests, Introductory College Writing will focus on composition—on the art of arranging and developing your ideas in writing. This means that the course attempts to teach you to write, mainly by examining, analyzing and practicing various modes of writing. (It is not a course in spelling, grammar, and mechanics, even though we may take time out to talk about these). On a most fundamental level, its goal is to raise your awareness with regard to both your writing and reading. Through the careful study of thought-provoking texts you will develop better reading skills and understand the effects of these texts on you more clearly. At the same time, frequent assignments in and out of class will sharpen your writing skills and make you more aware of your own way/style of writing. Only by understanding more clearly the nature of your own writing will you be able to make use of the suggestions of improvement that are at the center of this course.

[3] Class Delivery Method

This course focuses on writing for Academia and as such we will start with basic sentence structure and move into writing paragraphs by the end of the semester. We will write and read every week during class to prepare you for the academic world.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Grading and attendance -

Attendance as a policy at our school is 20%. Each class we will have practical practice and feedback. Each week there is optional writing that can be used if the student wishes to have extra feedback. This can count for attendance, under special circumstances. This policy will be explained in detail on the first day of class.

Exams

There will be a midterm and a final exam. The midterm exam will be on the general and specific structures of the sentence; theoretical and practical knowledge will be tested. The final exam will be practical and will ask you to write and organize paragraphs about a range of topics. You will need to prepare for and study using the book.

⑤ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dorothy Zemach / Carlos Islam	Publisher	Macmillan Education	Textbook	Writing: Paragraphs: From Topic to Paragraph	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Beginning to Work
Third week	Topic Sentences
Fourth week	Adjectives
Fifth week	Capitalization / Adjectives (continued)
Sixth week	How to begin: Finding a place to start. What to write about.
Seventh week	Opinion Sentences – Getting your point across.
Eighth week	Midterm
Ninth week	Explaining Cause and Effect
Tenth week	Logical Order of supporting sentences
Eleventh week	Time expressions in paragraphs
Twelfth week	Comparison Paragraphs
Thirteenth week	Explaining your decisions
Fourteenth week	Writing about the Future
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The third assignment			date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Language and Culture	Course Number	0009083001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[12-406:수(1)(2)(3)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course reviews a wide variety of culture and language, and interconnectedness between language and culture. It examines the way language reflects beliefs and values of a society, and analyses the influences culture and language on behaviour.

[2] Course Learning Outcomes

1. Understand how the use of language has a symbolic relationship with culture
2. Identify the ways in which the students uses language in daily life
3. Understand how language enables, structures and contained our interactions
4. Understand how language and culture have affected one another
5. critically assess their own culture and language and point out examples where their culture and language affect one another
6. Understand how language develop and change over time

[3] Class Delivery Method

Lecture, discussion and presentation
NO KOREAN used in this class ONLY English

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

See syllabus

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jack Eller	Publisher	Routledge	Textbook	cultural anthropology	Issued year	2009
(2)	Author	Guy Deutscher	Publisher	metropolitan books	Textbook	through the language class	Issued year	2010
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	welcome to class Introduction to culture and language – Collecting papers/journal on topic of your choice
Second week	The concept of culture – Collect Journals for topic/ Topic ideas and research question
Third week	Language – Topic ideas and research question
Fourth week	Research methods in cultural studies – part 1 – Discuss research question
Fifth week	Language, cultural and identity – Writing literature review paper
Sixth week	Work in class – APA reference and Writing literature review paper
Seventh week	Language and communication – Peer Review
Eighth week	Research methods – part 2 – Discuss methods
Ninth week	Culture in media – How to write methodology section
Tenth week	Language acquisition and socialization – Analyzing data/Collect data
Eleventh week	Culture in the TESOL classroom_ English as an international language – How to write results section /analyze and write results
Twelfth week	Language acquisition and socialization – How to write discussion and conclusion/write paper
Thirteenth week	Culture change and globalization – Final paper Peer Review
Fourteenth week	Presentation
Fifteenth week	Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	b) research paper: how effective is English as a medium of instruction	submission date	
	purpose	a. Literature review. b. final paper c. presentation		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	History of Science and Technology	Course Number	0012532001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[12-502:월(4)(5)(6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course is to study the development of science and technology in historical perspective from the ancient times through the middle age to the early modern period.

[2] Course Learning Outcomes

Students will have a chance to understand science and technology in historical perspective for broader and deeper insights in humanity

[3] Class Delivery Method

Course materials such as PPT files and notes will be available through your cyber class system. Questions should be addressed to yeuncheoljeong@yahoo.co.kr or 02-3408-3134 +(Sejong University)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

One midterm test and one final test + homeworks + mandatory attendance.

The homework will be a simple OX type questions which will be posted on the cyber class system each week.

There will be no excuse for missing classes except for a hospitalization(병원입원) and Korean national guard drill(예비군 훈련)

Even in the case of hospitalization and Korean national guard drill, you should consult with me first about the situation.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	The class material will be provided	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction: Lecture and Course
Second week	Ancient(1); Pre-Socrates
Third week	Ancient(2);Aristotle and Plato
Fourth week	Ancient(3);Hellenism–the Earth Centered Universe & the Sun centered Universe
Fifth week	Middle Age and Islamic science
Sixth week	Scientific Revolution
Seventh week	Early modern and Newtonian Physical science
Eighth week	Midterm test
Ninth week	Enlightenment and French Revolution
Tenth week	Industrial Revolution
Eleventh week	Development of modern Chemisty and Geology
Twelfth week	Theory of Evolution and Genetics
Thirteenth week	Modern Biology and Thermal Physics
Fourteenth week	Ether and Theory of Relativity Quantum Mechanics and Atomic Bombs
Fifteenth week	Final test
Sixteenth week	

[7] Assignments

The first assignment	assignment	The assignment will be announced later	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Korea on Screen		Course Number	0012537001		
Major / School Year	Faculty of Liberal Education / 전학년		completion division / Grade evaluation	/		
Department/Professor	Dept. of Korean Language & Literature /		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[15-211:금(1-2A)(2B-3)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

This course explores contemporary Korean society through the lens of modern Korean cinema. By watching and analyzing a range of films from the late twentieth century to the present, students will examine how Korean filmmakers represent social change, cultural values, and everyday life. The class approaches film not only as entertainment but also as a cultural text that reflects historical memory, political tensions, and shifting identities. Through guided discussions, short responses, and group-based analysis, students will learn to interpret cinematic narratives alongside social realities. Key themes include class inequality, gender and family, education and youth culture, urbanization, trauma and collective memory, and the global circulation of Korean popular culture. Students will be encouraged to compare Korean social issues with those of their own societies in order to deepen cross-cultural understanding.

[2] Course Learning Outcomes

By the end of this course, students will be able to analyze contemporary Korean films using key concepts from cultural and social studies. Students will develop critical viewing skills, including the ability to identify how cinematic techniques shape meaning and emotional response. They will gain a deeper understanding of major social issues in modern Korea—such as inequality, generational conflict, gender norms, and national identity—and how these issues are represented on screen. Students will learn to connect film narratives to historical and political contexts, recognizing cinema as a space where social debates and cultural anxieties become visible. They will strengthen their ability to articulate arguments clearly through discussion, writing, and presentations. Ultimately, students will practice comparative thinking by reflecting on similarities and differences between Korean society and their own cultural environments.

[3] Class Delivery Method

This course will be conducted through a combination of lectures, class discussions, and group presentations. Students will actively engage with film screenings and readings, and participate in collaborative analysis and critical dialogue throughout the semester.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	30 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Social Inequality & Class Conflict Film: Parasite
Third week	Lookism & the Politics of Appearance Film: The Beauty Inside
Fourth week	Migration, Diaspora, and Korean Identity Film: Minari
Fifth week	Democracy (I) Film: 1987: When the Day Comes
Sixth week	Democracy, Witnessing, and Media (II) Film: A Taxi Driver
Seventh week	Midterm Exam
Eighth week	Gender and Family Film: Kim Ji-young, Born 1982
Ninth week	North Korea on Screen Film: Secret Reunion
Tenth week	Inter-Korean Relations Film: Steel Rain
Eleventh week	Student Group Presentations (I) Group presentations: film analysis + social issue focus Peer feedback and guided Q&A
Twelfth week	Student Group Presentations (II) Group presentations continued Comparative discussion: Korea and students' home societies
Thirteenth week	Korean Religion, Shamanism & Pop Culture Imagination Film: K-pop Demon Hunters
Fourteenth week	Historical Films & National Identity Film: The Admiral: Roaring Currents
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third	assignment		submission date	
	purpose			

assignment	procedure & notice	
	references	

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Popular Music Theory and Practice	Course Number	0012533001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[12-306:금(7)(8)(9)]
Office hours	Individual Appointment (gchoi@inu.ac.kr)	Medium of Instruction	EN

[1] Outline / Purpose

This course strives for practical learning of popular music theory, various genres, and applicable musical skills.

[2] Course Learning Outcomes

This course aims for beginning students without formal piano/keyboard education to learn popular music and appropriate expressive elements. All students will receive small group/1:1 coaching for end-of-semester final performance.

[3] Class Delivery Method

Lecture, Discussion, Practicum

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	20 %	0 %	60 %	0 %

[4] Grading Policies

- Attendance and Professionalism (20%)
- Midterm Project (20%): Artist/Track Presentation
- Final Performance (60%): Solo Performance

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Azzara & Grunow	Publisher	GIA Publications, Inc.	Textbook	Developing Musicianship through Improvisation	Issued year	
(2)	Author		Publisher		Textbook	Handouts	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Creativity and Innovation: Improvisation
Third week	Jazz History and Trend
Fourth week	Rock & Pop History and Trend
Fifth week	Midterm Project Practicum
Sixth week	Musical Theater History and Trend
Seventh week	Small Group/1:1 Coaching
Eighth week	Midterm Project: Artist/Track Presentation
Ninth week	Film & OST History and Trend
Tenth week	K-Pop History and Trend (1)
Eleventh week	K-Pop History and Trend (2)
Twelfth week	World Music History and Trend
Thirteenth week	Small Group/1:1 Coaching
Fourteenth week	Final Performance Practicum
Fifteenth week	Final Performance: Solo Performance
Sixteenth week	

[7] Assignments

The first assignment	assignment	Artist/Track Presentation	submission date	2026-10-23 Fri
	purpose	Songwriter/Artist, Album/Track Analysis		
	procedure & notice	5-minute video presentation		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Global K Culture through Music and Storytelling		Course Number	0012535001		
Major / School Year	Faculty of Liberal Education / 전학년		completion division / Grade evaluation	/		
Department/Professor	/ 김규		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	01040060059	A weekday / class / lecture room	[12-404:금(1)(2)(3)]			
Office hours	Friday 12-15		Medium of Instruction	EN		

[1] Outline / Purpose

This course is a liberal arts English course designed to help students understand the growing global influence of K-Culture through music and storytelling in an accessible and engaging way. The course introduces a wide range of Korean music-related content, including K-pop, K-drama OSTs, Korean musicals, crossover works, as well as Korean classical artists and composers. Through these examples, students will explore how Korean culture has expanded globally in today's media environment. Rather than focusing on complex theories or heavy academic readings, the course emphasizes listening and viewing sessions supported by clear explanations, allowing students to experience and understand K-Culture without feeling overwhelmed.

[2] Course Learning Outcomes

The objectives of this course are as follows:

First, students will understand the key characteristics of K-Culture and its global expansion through music and storytelling. Second, students will explore various Korean music contents—such as K-pop, OSTs, and musicals—and identify the unique features of each genre through appreciation-based learning.

Third, students will examine why Korean music content has gained global attention in the international market and media environment through major examples discussed in class.

Fourth, students will develop a balanced liberal arts understanding of the musical and cultural contexts that shape K-Culture.

Fifth, students will broaden their cultural sensitivity and interest in global culture through diverse K-Culture cases.

[3] Class Delivery Method

The course is conducted through the instructor's key explanations combined with music and video listening/viewing sessions. Each week, students will engage with representative content related to the weekly theme, and the instructor will provide clear and accessible explanations of the historical background and cultural context so that appreciation naturally leads to understanding. The course also connects the global expansion of K-Culture with genre-specific characteristics through a variety of examples, enabling students to follow the class with confidence. The midterm exam will be replaced by an assignment on the topic of "the global expansion of K-pop," and the final exam will be conducted as a combination of short-answer and multiple-choice questions based on what students have learned in class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Student learning will be evaluated comprehensively based on attendance, assignments, and examinations. The midterm exam will be replaced by an assignment on the topic of "the global expansion of K-pop," in which students are expected to organize key course content and demonstrate their understanding based on major examples and materials covered in class. The final exam will be conducted based on what students have learned throughout the course and will include both multiple-choice and short-answer questions. Evaluation criteria will focus on students' class attitude and diligence, understanding of course content, and their ability to summarize and express what they have learned.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Suk-young Kim	Publisher	Stanford University Press	Textbook	K-Pop Live	Issued year	2018
(2)	Author	Dal yong Jin	Publisher	UNIVERSITY OF ILLINOIS PRESS	Textbook	New Korean Wave	Issued year	2016
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation: Course overview and introduction to K-Culture in the global era
Second week	K-Culture and Soft Power: Why Korean culture has gained global attention
Third week	Global Expansion of K-pop (1): Key early moments and representative examples
Fourth week	Global Expansion of K-pop (2): Growth in the global market and major hit songs
Fifth week	Performance and Visual Storytelling: How stages and music videos shape K-pop
Sixth week	Media Platforms and Global Spread: K-Culture in the era of YouTube and social media
Seventh week	K-Drama and OST: How music builds emotion and storytelling
Eighth week	Mid-Semester Review: Reviewing the global expansion of K-pop and key content (Midterm-replacement assignment: assignment submission)
Ninth week	The Growth of Korean Musicals: Key features and representative examples
Tenth week	K-Musicals Abroad: Korean musicals and their international expansion
Eleventh week	K-Sound beyond K-pop: Fusion, crossover, and genre diversity
Twelfth week	K-Classical Artists: Korean performers on the global stage
Thirteenth week	K-Composers and Creative Content: Contemporary Korean composers and musical identity
Fourteenth week	Recent K-Culture Trends: New content and global responses
Fifteenth week	Final Wrap-up: Course review and the meaning of K-Culture in the global era
Sixteenth week	

[7] Assignments

The first assignment	assignment	K-Culture Analysis Paper	submission date	2026-11-05 Thu
	purpose	The purpose of this assignment is to conduct an in-depth investigation into a self-selected case within the realm of K-Culture. Students will analyze the distinct appeal of their chosen subject, examining its departure from previous styles and its reception by global audiences from an independent, critical perspective.		
	procedure & notice	Students may select any topic including K-pop, musicals, classical music, or soundtracks. The paper must incorporate a comparative analysis with prior styles, global reception from critics and audiences, and an analytical exploration utilizing interviews or behind-the-scenes data alongside your own insights. The final paper must be 2 to 3 pages in English on A4 paper and submitted online by November 5th.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Understanding of K Music with Guitar	Course Number	0012536001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[12-307:목(011)(012)(013)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This class aims to learn about various korean and foreign songs with the guitar from basic course.

* We will not deal with idol's musics(eg, BTS, Black Pink etc) which are not proper to play with guitar.
If you are expecting that music style, please choose carefully.

[2] Course Learning Outcomes

Experience the joy of music through guitar practice and ensemble.

* This course is graded on an absolute evaluation system.

[3] Class Delivery Method

- Guitars are provided in classroom
- Class materials would be provided, so all of participants have to prepare a clear file to keep the papers
- Students have to follow professor's instruction and keep regulations
 - disrupting class(eg, making noisy and rude behaviors), one could be seperated from class
 - keeping one's left hand nails shortly

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	70 %	10 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	50 %	0 %	10 %	10 %	0 %	0 %

[4] Grading Policies

This class aim for enjoying music and cooperation so your attitude is most important.

Attitude includes concentration, cooperation, attendance, respectation, assignmen submission on time , etc.

*Ratio of Scores (total 100)

Mid term 35 (play test 25 + paper test 10)

Final term 35 (play test 35)

Attendance 20

Assiignment 10

* This course is graded on an absolute evaluation system.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Basic scale (1)– mini scale
Third week	Basic scale (2)– short scale
Fourth week	Basic scale (3)– Penta tonic scale & long scale
Fifth week	Basic Chord type
Sixth week	stroke Rhythm
Seventh week	preparation midterm test Q & A
Eighth week	Mid–term test
Ninth week	Performance Basics – High Position
Tenth week	storke Rhythm
Eleventh week	Stroke Techniques: Slow Go–Go, Shuffle
Twelfth week	Watching Music Video with onlie_ J.S Bach Chaconne
Thirteenth week	Ensemble
Fourteenth week	preparation of finalterm test Q & A
Fifteenth week	Final test and evaluation
Sixteenth week	–

[7] Assignments

The first assignment	assignment	Video review	submission date	
	purpose	understanding of chaconne context		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Introduction to Classical Music	Course Number	0012534001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[12-108:수(1)(2)(3)]
Office hours	Wednesday (by appointment)	Medium of Instruction	EN

[1] Outline / Purpose

Through this course, students will gain a foundational understanding of the essence and functions of Western classical music, as well as the fundamental concepts of instruments and musical genres. The course examines the historical development of Western classical music across different periods, focusing on major composers and their representative works. It also aims to cultivate students' appreciation as active and engaged listeners, while fostering global cultural literacy through the enjoyment of classical music.

[2] Course Learning Outcomes

This course begins with the fundamental question of what classical music is, examining the essential characteristics of classical instruments and the diversity of musical genres. Through critical listening and analysis of selected representative works, students will develop an informed appreciation of their artistic value. Conducted entirely in English, the course welcomes international and exchange students, as well as domestic students seeking to explore classical music through an English-medium learning environment.

[3] Class Delivery Method

This class primarily consists of lectures and music appreciation Q&A sessions.

Students learn to actively enjoy music by watching live performance videos of famous pieces.

Evaluation criteria are provided periodically throughout the course to facilitate students' effective learning.

*This course is graded on an absolute evaluation system.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	0 %	30 %	10 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Mid-term Exam, Final Exam (TBA)

Listening Essay (TBA)

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	The professor provides a PDF file containing music links every class.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Joonhee Kim (김준희)	Publisher	Saram-In (사람인)	Textbook	Classical Music Lesson (클래식음악수업)	Issued year	2023
(2)	Author	Barbara Russano Hanning	Publisher	Norton	Textbook	Concise History of Western Music	Issued year	2018
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction / What is the MUSIC?
Second week	What is the Classical Music? Brief History of Western Classical Music
Third week	Musical Instrumental Theory 1 – Wind Instruments / String Instruments
Fourth week	Musical Instrumental Theory 2 – Keyboard Instruments / Percussion Instruments / History of Orchestra
Fifth week	Classical Music in Mass Media *online session
Sixth week	Genre Theory 1 : Solo Works / Chamber Works
Seventh week	Genre Theory 2 : – Orchestral Music (Symphony, Overture etc)
Eighth week	Midterm Exam
Ninth week	Genre Theory 3: – Vocal Music (Lied, Choral Music, Opera etc)
Tenth week	Listening to Musical Masterpieces 1
Eleventh week	Listening to Musical Masterpieces 2 Concert Performance and Recording Practices
Twelfth week	Russian Music, Film Music
Thirteenth week	New World Music, Jazz, Electronic Music, Modernism
Fourteenth week	Listening Exam / Review
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Listening Eassy	submission date	2026-11-29 Sun
	purpose			
	procedure & notice	Attending a concert and writing an essay		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	New Waves of Korean Culture	Course Number	0006404001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[15-211:금(4-5A)(5B-6)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This course is aimed to examine the issues having emerged in Korean society since 2000 through reviewing relevant movies in an effort to diagnose the present and forecast the future of Korea. In particular, a focus is placed on the values and lives of the Koreans in Korea that has entered into a multi-cultural society and thus on a way to internationally balanced perspective and the value of integration and collaboration will be sought.

[2] Course Learning Outcomes

The course aims to predict the future of Korean Wave and Global Synergy by examining the value and flow of it, and reviewing the role of Korean Wave in international society and the ripple effect of Korean Wave from diverse perspectives. Also, it aims to review what effect of Korean Wave has on the domains such as politics, economy, culture, diplomacy and contemplate the position of Korea in international society being changed by Korean Wave.

[3] Class Delivery Method

This course is made up of lectures and group project. Each student group has to make a presentation at least once. Topic for presentation can be chosen in each group, but has to be related to the contents of lecture. It is expected that presentation will reflect a groups perspective on a specific issue or topic. In addition, each team has to establish its own stance on the theme of lecture and debate with other groups. No assignment will be given to individual students and final test will be given once in the last week of the course.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	0 %	0 %	20 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Korean Wave in Asia and Beyond(1)
Second week	Korean Wave in Asia and Beyond(2)
Third week	Korean Wave and Social Change in Korea(1)
Fourth week	Korean Wave and Social Change in Korea(2)
Fifth week	The changing image of Korea(1)
Sixth week	The changing image of Korea(2)
Seventh week	The changing image of Korea(3)
Eighth week	Test
Ninth week	Ode to My Father and Contemporary Korean History
Tenth week	Mother and Korean Family(1)
Eleventh week	Masquerade and Korean Leadership Styles
Twelfth week	Punch and Multi-Cultural Society
Thirteenth week	Secret Reunion and Reunification
Fourteenth week	The Throne and Korean Family(2)
Fifteenth week	The Future of Korea
Sixteenth week	Final Test

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Korean culture and history		Course Number	0012531001		
Major / School Year	Faculty of Liberal Education / 전학년		completion division / Grade evaluation	/		
Department/Professor	/ 권미경		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[12-507:금(1)(2)(3)]			
Office hours	Before and after class, by appointment		Medium of Instruction	EN		

[1] Outline / Purpose

This course explores major themes in Korean history and culture from ancient times to the present. Rather than presenting Korean history only as a chronological sequence of political events, the course examines how history and culture have been shaped through place, memory, everyday life, film, cultural heritage, urban development, and popular culture.

Students will study topics such as ancient kingdoms and foundation myths, Confucian society, modernization and the opening of ports, Japanese colonial rule, the Korean War and national division, industrialization, democratization, and the global spread of Korean popular culture. The course also considers traditional cultural practices, including hanbok, hanok, food, family rituals, festivals, and cultural heritage, and examines how these traditions are reinterpreted in contemporary society.

Through lectures, discussions, films, readings, fieldwork, and student projects, students will connect historical knowledge with actual places and cultural representations. A field trip to Incheon Chinatown and the Open Port area will provide an opportunity to examine modernity, migration, multicultural exchange, and urban memory through direct observation. The course ultimately aims to help students understand Korean history and culture as dynamic processes that continue to shape contemporary Korean society and its global image.

[2] Course Learning Outcomes

Course Learning Outcomes

By the end of the course, students will be able to:

1. Explain major historical developments in Korea from ancient times to the contemporary period and identify their cultural significance.
2. Analyze Korean history through key themes such as place, memory, identity, family, gender, education, urbanization, division, democratization, and globalization.
3. Describe how traditional cultural practices and heritage, including clothing, architecture, food, rituals, and festivals, have been preserved, transformed, and reinterpreted in modern society.
4. Interpret films, literature, museums, memorial spaces, photographs, and popular media as representations of Korean history and cultural memory.
5. Apply course concepts to actual historical and cultural sites through field observation, note-taking, photography, and reflective writing.
6. Evaluate the historical background and contemporary meaning of Korean popular culture, including K-pop, film, television dramas, webtoons, games, food, and beauty culture.
7. Compare different interpretations of Korean history and culture and participate effectively in class discussions and group activities.
8. Communicate research findings and cultural analysis in English through reflection papers, analytical essays, presentations, and a group video project.

[3] Class Delivery Method

The course combines lectures, discussions, practical activities, audiovisual materials, and field-based learning. Approximately 40 percent of class time will consist of lectures introducing historical background, major concepts, and cultural contexts. Approximately 25 percent will be devoted to class discussions in which students analyze readings, films, historical issues, and contemporary cultural examples.

Practical and project-based activities will account for approximately 15 percent of the course. These activities include group research, film analysis, field observation, project planning, presentation preparation, and the production of an English-language promotional or documentary-style video. Audiovisual materials, including films, documentaries, photographs, maps, and online cultural resources, will be used to support approximately 10 percent of class activities.

A field trip to Incheon Chinatown and the Open Port area will account for approximately 10 percent of the course. During the field trip, students will observe historical sites, museum materials, architecture, and urban spaces and will connect their observations with course concepts such as modernity, migration, multicultural exchange, and the memory of place.

Students are expected to participate actively in discussions, complete assigned readings and media materials, and collaborate responsibly in group work. Classes may include short lectures, guided questions, small-group discussions, visual analysis, student presentations, and feedback sessions.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	25 %	0 %	15 %	10 %	0 %	10 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	20 %	0 %	30 %	0 %	40 %	0 %

[4] Grading Policies

The final grade will be based on examinations, attendance and participation, and assignments. Examinations account for 60% of the final grade, including the midterm and final examinations. Attendance and active participation account for 20%, and assignments account for 20%.

Students are expected to attend class regularly, participate actively in discussions and group activities, and submit all assignments by the announced deadlines. Late submissions may receive a reduced grade unless prior approval has been obtained from the instructor. Assignments will be evaluated based on the quality of analysis, appropriate use of course concepts, clarity of communication, originality, and responsible collaboration. Academic dishonesty, including plagiarism and unauthorized use of sources, will be handled according to university regulations.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	The Academy of Korean Studies	Publisher	The Academy of Korean Studies	Textbook	A History of Korea: The Understanding Korea Series	Issued year	2019
(2)	Author	The Academy of Korean Studies	Publisher	The Academy of Korean Studies	Textbook	Exploring Korean History through World Heritage	Issued year	2014
(3)	Author	The Academy of Korean Studies	Publisher	The Academy of Korean Studies	Textbook	Cultural Landscapes of Korea	Issued year	2010

[Reference books]

(1)	Author	Andrew David Jackson, Sandy Nguyen, and Eva Richards (eds.)	Publisher	Routledge	Textbook	Snapshots and Soundbites of Korean Culture	Issued year	2026
(2)	Author	Joanne Miyang Cho and Lee M. Roberts (eds.)	Publisher	Routledge	Textbook	Korean Culture in the Global Age: K-Pop, K-Drama, K-Film, and K-Literature	Issued year	2025
(3)	Author	Dal Yong Jin	Publisher	Routledge	Textbook	Understanding the Korean Wave: Transnational Korean Pop Culture and Digital Technologies	Issued year	2024
(4)	Author	Hyunseon Lee (ed.)	Publisher	Routledge	Textbook	Korean Film and History	Issued year	2023
(5)	Author	Michael J. Seth	Publisher	Rowman & Littlefield (Bloomsbury)	Textbook	A Concise History of Korea: From Antiquity to the Present, 4th ed.	Issued year	2024

[Other books]

[6] Weekly lesson plans

First week	Course Introduction: How Do We Study Korean History and Culture? This week introduces the course objectives, evaluation methods, assignments, field trip, and student project. Rather than studying Korean history as a simple chronological narrative, students will explore Korean history and culture through film, place, memory, everyday life, and popular culture.
Second week	Korea as Place: Geography, Cities, Borders, and Cultural Identity This week examines the geography of the Korean Peninsula, the formation of cities, regional identities, divided spaces, and the symbolic meaning of Seoul. Students will consider how Korean culture has been shaped by specific places and historical spaces.
Third week	Tradition Reimagined: Hanbok, Hanok, Food, Rituals, and Cultural Heritage This week explores how Korean traditions such as hanbok, hanok, Korean food, holidays, family rituals, and cultural heritage are reinterpreted and consumed in contemporary society. Students will understand tradition not as something fixed, but as something continuously reconstructed in modern life.
Fourth week	Kingdoms, Myths, and Cultural Origins This week introduces ancient and medieval Korean history, including Gojoseon, the Three Kingdoms, Unified Silla, and Goryeo. Instead of focusing only on political chronology, the class examines foundation myths, Buddhist culture, royal authority, and cultural heritage.
Fifth week	Confucian Korea: Family, Gender, Education, and Social Order This week examines the Joseon dynasty through the lens of Confucian social order, family structure, education, yangban culture, gender norms, and etiquette. Students will discuss how Confucian values continue to influence Korean society today and how they have changed.
Sixth week	Encounters with the World: Open Ports, Modernity, and Incheon This week focuses on Korea's opening to the world, modern urban spaces, foreign settlements, and

	the historical significance of Incheon as a port city. In preparation for the field trip, students will learn about Incheon Chinatown, the Open Port area, cultural exchange, and modernity.
Seventh week	Colonial Modernity and Cultural Memory This week examines the Japanese colonial period through the themes of modernity, urban life, language, education, resistance, and cultural memory. Through film, literature, and memorial spaces, students will discuss how colonial experiences continue to shape Korean historical consciousness and culture.
Eighth week	Midterm Exam The midterm exam covers lectures, discussions, readings, media materials, and the field trip from Weeks 1 to 7. The exam evaluates students' ability to connect key concepts and examples rather than simply memorize historical facts.
Ninth week	Field Trip: Incheon Chinatown and the Open Port Area Students will visit Incheon Chinatown and the Open Port area to observe traces of Korean modernity and cultural exchange. Based on photographs, notes, and field observations, students will analyze how Incheon represents modernity, multicultural contact, and the memory of place.
Tenth week	War, Division, and Family Memory This week explores the Korean War and national division not only as political events, but also through the experiences of families, separation, displacement, memory, and cinematic representation. Students will understand how division has shaped Korean identity and popular culture.
Eleventh week	Industrialization, Urban Life, and Everyday Culture This week examines industrialization and urbanization after the 1960s, including labor, apartment culture, education fever, and changes in family structure. Students will analyze how the narrative of economic development appears in everyday life and culture.
Twelfth week	Democratization, Protest Culture, and Civil Society This week focuses on democratization movements, university culture, civil society, protest culture, and the political meaning of songs and images. Students will discuss how major events in modern Korean history are represented in film and popular memory.
Thirteenth week	Korean Popular Culture and Global Korea This week examines the global spread of Korean popular culture, including K-pop, Korean cinema, dramas, webtoons, games, food culture, and beauty culture. Students will discuss how Korean culture is translated, consumed, and sometimes misunderstood in global contexts.
Fourteenth week	Student Project Presentations: Korean Culture I Want to Introduce Students will present their research on a selected topic related to Korean culture and share their English-language promotional or documentary-style video. After each presentation, the class will discuss how Korean culture can be introduced effectively to an international audience.
Fifteenth week	Final Exam The final exam will be conducted this week. It focuses on major themes in Korean history and culture and evaluates students' ability to synthesize films, fieldwork, student projects, and class discussions.
Sixteenth week	Supplementary Week If necessary, this week will be used for supplementary lectures, additional presentations, project feedback, or final exam review. Students will review the course as a whole and reconsider Korean history and culture from thematic and cultural perspectives.

[7] Assignments

The first assignment	assignment	Field Trip Reflection: Incheon as a Space of Modernity and Cultural Exchange	submission date	2026-11-08 Sun
	purpose	Through the field trip to Incheon Chinatown and the Open Port area, students will understand the spatial meaning of Korean modernity and cultural exchange. They will connect the concepts of open ports, modernity, migration, multicultural space, and urban memory with actual historical sites		
	procedure & notice	Students will submit a 1-2 page reflection paper in English after the field trip. The paper should not be a simple travel diary; it should analyze the historical and cultural meaning of the place using course concepts. Students may use photographs, observation notes, museum materials, and field notes.		
	references	Course lecture slides, field notes, museum brochures, photographs taken during the field trip, official materials from Incheon cultural institutions.		
The second assignment	assignment	Film Response Essay: Korean History and Culture through Cinema	submission date	2026-11-22 Sun
	purpose	This assignment aims to analyze how Korean films represent historical events, social change, and cultural memory. Students will examine how characters, spaces, conflicts, and images in film interpret and communicate Korean history and culture.		
	procedure & notice	Students will choose one Korean film discussed in class or approved by the instructor and write an analytical essay in English. The essay should minimize plot summary and focus on the historical and cultural issues represented in		

		the film. Students must connect their analysis to course concepts and readings.		
	references	Selected Korean films, course readings, lecture slides, Korean Film Council resources, museum or historical institution websites.		
The third assignment	assignment	Group Video Project: Korean Culture I Want to Introduce	submission date	2026-12-13 Sun
	purpose	Students will choose one topic related to Korean culture, conduct research, and introduce it effectively to an international audience. The project helps students understand the historical background, contemporary meaning, and global communicability of Korean culture.		
	procedure & notice	Students will work in groups of three to four. Each group will select one topic related to Korean culture and produce a 5-7 minute promotional or documentary-style video in English. The video should include an introduction to the topic, historical and cultural background, contemporary significance, and reasons why the topic is worth introducing to international audiences.		
	references	Academic sources, official cultural institution websites, museum materials, interviews, field research, visual materials, Korea Foundation publications, Korean Culture and Information Service resources.		

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Korean culture and history		Course Number	0012531002			
Major / School Year	Faculty of Liberal Education / 전학년		completion division / Grade evaluation	/			
Department/Professor	/ 권미경		Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[12-507:금(5)(6)(7)]				
Office hours	Before and after class, by appointment		Medium of Instruction	EN			

[1] Outline / Purpose

This course explores major themes in Korean history and culture from ancient times to the present. Rather than presenting Korean history only as a chronological sequence of political events, the course examines how history and culture have been shaped through place, memory, everyday life, film, cultural heritage, urban development, and popular culture.

Students will study topics such as ancient kingdoms and foundation myths, Confucian society, modernization and the opening of ports, Japanese colonial rule, the Korean War and national division, industrialization, democratization, and the global spread of Korean popular culture. The course also considers traditional cultural practices, including hanbok, hanok, food, family rituals, festivals, and cultural heritage, and examines how these traditions are reinterpreted in contemporary society.

Through lectures, discussions, films, readings, fieldwork, and student projects, students will connect historical knowledge with actual places and cultural representations. A field trip to Incheon Chinatown and the Open Port area will provide an opportunity to examine modernity, migration, multicultural exchange, and urban memory through direct observation. The course ultimately aims to help students understand Korean history and culture as dynamic processes that continue to shape contemporary Korean society and its global image.

[2] Course Learning Outcomes

By the end of the course, students will be able to:

1. Explain major historical developments in Korea from ancient times to the contemporary period and identify their cultural significance.
2. Analyze Korean history through key themes such as place, memory, identity, family, gender, education, urbanization, division, democratization, and globalization.
3. Describe how traditional cultural practices and heritage, including clothing, architecture, food, rituals, and festivals, have been preserved, transformed, and reinterpreted in modern society.
4. Interpret films, literature, museums, memorial spaces, photographs, and popular media as representations of Korean history and cultural memory.
5. Apply course concepts to actual historical and cultural sites through field observation, note-taking, photography, and reflective writing.
6. Evaluate the historical background and contemporary meaning of Korean popular culture, including K-pop, film, television dramas, webtoons, games, food, and beauty culture.
7. Compare different interpretations of Korean history and culture and participate effectively in class discussions and group activities.
8. Communicate research findings and cultural analysis in English through reflection papers, analytical essays, presentations, and a group video project.

[3] Class Delivery Method

The course combines lectures, discussions, practical activities, audiovisual materials, and field-based learning. Approximately 40 percent of class time will consist of lectures introducing historical background, major concepts, and cultural contexts. Approximately 25 percent will be devoted to class discussions in which students analyze readings, films, historical issues, and contemporary cultural examples.

Practical and project-based activities will account for approximately 15 percent of the course. These activities include group research, film analysis, field observation, project planning, presentation preparation, and the production of an English-language promotional or documentary-style video. Audiovisual materials, including films, documentaries, photographs, maps, and online cultural resources, will be used to support approximately 10 percent of class activities.

A field trip to Incheon Chinatown and the Open Port area will account for approximately 10 percent of the course. During the field trip, students will observe historical sites, museum materials, architecture, and urban spaces and will connect their observations with course concepts such as modernity, migration, multicultural exchange, and the memory of place.

Students are expected to participate actively in discussions, complete assigned readings and media materials, and collaborate responsibly in group work. Classes may include short lectures, guided questions, small-group discussions, visual analysis, student presentations, and feedback sessions.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	25 %	0 %	15 %	10 %	0 %	10 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	20 %	0 %	30 %	0 %	40 %	0 %

[4] Grading Policies

The final grade will be based on examinations, attendance and participation, and assignments. Examinations account for 60% of the final grade, including the midterm and final examinations. Attendance and active participation account for 20%, and

assignments account for 20%.

Students are expected to attend class regularly, participate actively in discussions and group activities, and submit all assignments by the announced deadlines. Late submissions may receive a reduced grade unless prior approval has been obtained from the instructor. Assignments will be evaluated based on the quality of analysis, appropriate use of course concepts, clarity of communication, originality, and responsible collaboration. Academic dishonesty, including plagiarism and unauthorized use of sources, will be handled according to university regulations.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	The Academy of Korean Studies	Publisher	The Academy of Korean Studies	Textbook	A History of Korea : The Understanding Korea Series	Issued year	2019
(2)	Author	The Academy of Korean Studies	Publisher	The Academy of Korean Studies	Textbook	Exploring Korean History through World Heritage	Issued year	2014
(3)	Author	The Academy of Korean Studies	Publisher	The Academy of Korean Studies	Textbook	Cultural Landscapes of Korea	Issued year	2010

[Reference books]

(1)	Author	Andrew David Jackson, Sandy Nguyen, and Eva Richards (eds.)	Publisher	Routledge	Textbook	Snapshots and Soundbites of Korean Culture	Issued year	2026
(2)	Author	Joanne Miyang Cho and Lee M. Roberts (eds.)	Publisher	Routledge	Textbook	Korean Culture in the Global Age: K-Pop, K-Drama, K-Film, and K-Literature	Issued year	2025
(3)	Author	Dal Yong Jin	Publisher	Routledge	Textbook	Understanding the Korean Wave: Transnational Korean Pop Culture and Digital Technologies	Issued year	2024
(4)	Author	Hyunseon Lee (ed.)	Publisher	Routledge	Textbook	Korean Film and History	Issued year	2023
(5)	Author	Michael J. Seth	Publisher	Rowman & Littlefield (Bloomsbury)	Textbook	A Concise History of Korea: From Antiquity to the Present, 4th ed.	Issued year	2024

[Other books]

Selected English-language articles, films, documentaries, museum materials, and online resources on Korean history, cinema, cultural heritage, urban culture, and popular culture will be provided by the instructor.

[6] Weekly lesson plans

First week	Course Introduction: How Do We Study Korean History and Culture? This week introduces the course objectives, evaluation methods, assignments, field trip, and student project. Rather than studying Korean history as a simple chronological narrative, students will explore Korean history and culture through film, place, memory, everyday life, and popular culture.
Second week	Korea as Place: Geography, Cities, Borders, and Cultural Identity This week examines the geography of the Korean Peninsula, the formation of cities, regional identities, divided spaces, and the symbolic meaning of Seoul. Students will consider how Korean culture has been shaped by specific places and historical spaces.
Third week	Tradition Reimagined: Hanbok, Hanok, Food, Rituals, and Cultural Heritage This week explores how Korean traditions such as hanbok, hanok, Korean food, holidays, family rituals, and cultural heritage are reinterpreted and consumed in contemporary society. Students will understand tradition not as something fixed, but as something continuously reconstructed in modern life.
Fourth week	Kingdoms, Myths, and Cultural Origins This week introduces ancient and medieval Korean history, including Gojoseon, the Three Kingdoms, Unified Silla, and Goryeo. Instead of focusing only on political chronology, the class examines foundation myths, Buddhist culture, royal authority, and cultural heritage.
Fifth week	Confucian Korea: Family, Gender, Education, and Social Order This week examines the Joseon dynasty through the lens of Confucian social order, family structure, education, yangban culture, gender norms, and etiquette. Students will discuss how Confucian values continue to influence Korean society today and how they have changed.
Sixth week	Encounters with the World: Open Ports, Modernity, and Incheon This week focuses on Korea's opening to the world, modern urban spaces, foreign settlements, and the historical significance of Incheon as a port city. In preparation for the field trip, students will learn about Incheon Chinatown, the Open Port area, cultural exchange, and modernity.

Seventh week	Colonial Modernity and Cultural Memory This week examines the Japanese colonial period through the themes of modernity, urban life, language, education, resistance, and cultural memory. Through film, literature, and memorial spaces, students will discuss how colonial experiences continue to shape Korean historical consciousness
Eighth week	Midterm Exam The midterm exam covers lectures, discussions, readings, media materials, and the field trip from Weeks 1 to 7. The exam evaluates students' ability to connect key concepts and examples rather than simply memorize historical facts.
Ninth week	Field Trip: Incheon Chinatown and the Open Port Area Students will visit Incheon Chinatown and the Open Port area to observe traces of Korean modernity and cultural exchange. Based on photographs, notes, and field observations, students will analyze how Incheon represents modernity, multicultural contact, and the memory of place.
Tenth week	War, Division, and Family Memory This week explores the Korean War and national division not only as political events, but also through the experiences of families, separation, displacement, memory, and cinematic representation. Students will understand how division has shaped Korean identity and popular culture.
Eleventh week	Industrialization, Urban Life, and Everyday Culture This week examines industrialization and urbanization after the 1960s, including labor, apartment culture, education fever, and changes in family structure. Students will analyze how the narrative of economic development appears in everyday life and culture.
Twelfth week	Democratization, Protest Culture, and Civil Society This week focuses on democratization movements, university culture, civil society, protest culture, and the political meaning of songs and images. Students will discuss how major events in modern Korean history are represented in film and popular memory.
Thirteenth week	Korean Popular Culture and Global Korea This week examines the global spread of Korean popular culture, including K-pop, Korean cinema, dramas, webtoons, games, food culture, and beauty culture. Students will discuss how Korean culture is translated, consumed, and sometimes misunderstood in global contexts.
Fourteenth week	Student Project Presentations: Korean Culture I Want to Introduce Students will present their research on a selected topic related to Korean culture and share their English-language promotional or documentary-style video. After each presentation, the class will discuss how Korean culture can be introduced effectively to an international audience.
Fifteenth week	Final Exam The final exam will be conducted this week. It focuses on major themes in Korean history and culture and evaluates students' ability to synthesize films, fieldwork, student projects, and class discussions.
Sixteenth week	Supplementary Week If necessary, this week will be used for supplementary lectures, additional presentations, project feedback, or final exam review. Students will review the course as a whole and reconsider Korean history and culture from thematic and cultural perspectives.

[7] Assignments

The first assignment	assignment	Field Trip Reflection: Incheon as a Space of Modernity and Cultural Exchange	submission date	2026-11-08 Sun
	purpose	Through the field trip to Incheon Chinatown and the Open Port area, students will understand the spatial meaning of Korean modernity and cultural exchange. They will connect the concepts of open ports, modernity, migration, multicultural space, and urban memory with actual historical sites.		
	procedure & notice	Students will submit a 1-2 page reflection paper in English after the field trip. The paper should not be a simple travel diary; it should analyze the historical and cultural meaning of the place using course concepts. Students may use photographs, observation notes, museum materials, and field notes.		
	references	Course lecture slides, field notes, museum brochures, photographs taken during the field trip, official materials from Incheon cultural institutions.		
The second assignment	assignment	ilm Response Essay: Korean History and Culture through Cinema	submission date	2026-11-22 Sun
	purpose	This assignment aims to analyze how Korean films represent historical events, social change, and cultural memory. Students will examine how characters, spaces, conflicts, and images in film interpret and communicate Korean history and culture.		
	procedure & notice	Students will choose one Korean film discussed in class or approved by the instructor and write an analytical essay in English. The essay should minimize plot summary and focus on the historical and cultural issues represented in the film. Students must connect their analysis to course concepts and readings.		
	references	Selected Korean films, course readings, lecture slides, Korean Film Council resources, museum or historical institution websites.		
	assignment	Group Video Project: Korean Culture I Want to Introduce	submission date	2026-12-13 Sun

The third assignment	purpose	Students will choose one topic related to Korean culture, conduct research, and introduce it effectively to an international audience. The project helps students understand the historical background, contemporary meaning, and global communicability of Korean culture.
	procedure & notice	Students will work in groups of three to four. Each group will select one topic related to Korean culture and produce a 5–7 minute promotional or documentary-style video in English. The video should include an introduction to the topic, historical and cultural background, contemporary significance, and reasons why the topic is worth introducing to international audiences.
	references	Academic sources, official cultural institution websites, museum materials, interviews, field research, visual materials, Korea Foundation publications, Korean Culture and Information Service resources.

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Unlock the Korean Wave		Course Number	0012538001		
Major / School Year	Faculty of Liberal Education / 전학년		completion division / Grade evaluation	/		
Department/Professor	/ 조지민		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[12-406:목(6)(7)(8)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

Discover how Korean popular culture became a global powerhouse. We will dive into the business of K-pop, the narratives of K-Drama and the power of digital media that drive Korea's massive worldwide cultural influence.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

- Define "Hallyu" and analyze its historical development across different waves.
- Critically examine the industrial and economic models behind the K-pop and K-drama industries.
- Evaluate the role of technology and social media in the global dissemination of Hallyu.
- Analyze the concept of "soft power" as it relates to the South Korean government's use of Hallyu.
- Identify and interpret the social and cultural effects of Hallyu on both Korean society and global fandom communities.
- Conduct independent research on a specific topic related to the Korean Wave and present their findings.

[3] Class Delivery Method

Lecture, reading, group work and discussion, and presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Welcome and intro
Second week	What is the Korean Wave
Third week	historical and political context
Fourth week	the K-pop industry
Fifth week	The trainee system
Sixth week	the K-drama phenomenon
Seventh week	Korean Cinema's Renaissance
Eighth week	Mid-term presentation Project Individual: Micro-Ethnography of the Korean Wave (Hallyu)
Ninth week	Aesthetics and Identity
Tenth week	Fandom as a Cultural Force
Eleventh week	Aesthetics and fashion: soft power
Twelfth week	Soft power Expansion: Language and food (kimbap).
Thirteenth week	Expansion: Webtoon, gaming and economic impact.
Fourteenth week	case study Ramen
Fifteenth week	Final presentation
Sixteenth week	Final presentation

[7] Assignments

The first assignment	assignment	Project Group: Exploring Hallyu/Korean wave	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Project Group : "A Day in the Life of a K-pop Trainee"	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Project Individual: Micro-Ethnography of the Korean Wave (Hallyu)	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	AI Design Studio 2	Course Number	0012503001
Major / School Year	Dept. of Creative Design / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Design /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[16-213:수(6)(7)(8)]
Office hours		Medium of Instruction	EN

[1] Outline / Purpose

This introductory-to-intermediate, workshop-based course is designed to help students understand the Double Diamond process of Design Thinking and leverage AI tools to solve diverse real-world issues. Through multi-national collaboration (Co-design), students will share cross-cultural insights and experience the practical value of AI in visualizing and developing design ideas.

[Course Requirements & Notice]

Active participation in class requires a subscription to at least one generative AI tool (including image or video generation features). Please be aware that restrictions on usage tokens during class activities or assignment submissions may affect the fidelity of your deliverables, which could impact evaluation

[2] Course Learning Outcomes

- Process Mastery: Understand the four phases of the Double Diamond (Discover, Define, Develop, Deliver) and apply the appropriate toolkit for each stage.
- AI Integration: Integrating image generation and language model AI into the design process can overcome visual expression limitations for non-design majors and enhance the design capabilities of design majors.
- Global Collaboration: Cultivate user-centered problem-solving skills while communicating with team members from diverse cultural backgrounds.

[3] Class Delivery Method

- Short Lecture (30%): Foundations of Design Thinking theory and AI Prompt Engineering.
- Hands-on Workshop/Practice (50%): Intensive 2-hour co-design sessions based on the Double Diamond model.
- Critique, Presentation & Discussion (20%): Sessions to share AI-generated design outcomes, engage in discussion, and exchange feedback.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1. Participation & Attitude (40%): Workshop engagement level, attendance, and collaborative attitude with multinational teammates.
2. Process Logic (30%): The logical consistency in utilizing Double Diamond toolkits at each stage.
3. AI Application & Assignment (30%): Quality of assignments, including the level of idea concretization and the visual completeness of AI-supported outcomes.

④ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

1. Participation (40%): 워크숍 참여도 및 다국적 팀원과의 협업 태도
2. Process Logic (30%): 더블 다이아몬드 단계별 툴킷 활용의 논리성
3. AI Application (30%): AI를 활용한 아이디어 구체화 및 시각적 결과물의 완성도

[6] Weekly lesson plans

First week	Week 1: Introduction to AI Design Studio 02 - Objectives: Understand the course overview, learning goals, and evaluation methods. - Activities: Introduction of the lecturer, overview of lecture methods (Teaching 30%, Discussion 20%, Practice 50%), and student self-introductions. - Deliverables: Understanding of the course content and the lecturer.
Second week	Week 2: Design Thinking Basics & Double Diamond - Objectives: Understand the basics of design thinking and practice the Discover/Define/Design/Deliver phases of the Double Diamond model. - Activities: Lecture on the purpose, roles, and process of design thinking; introduction to AI tools and case studies; co-design workshop - Deliverables: Definition of the discovered problem and proposed solutions (Product or service)
Third week	Week 3: AI-Supported Visualization - Objectives: Visualize and present ideas effectively using AI tools. - Activities: Practice visualizing the outcomes of the Week 2 workshop using AI tools and present them effectively. - Deliverables: AI-visualized service design outcomes and presentation materials.
Fourth week	Week 4: Team Project: Topic TBD - Objectives: Select one item from the designated topic options and propose a solution - Activities: Design development item selection and brainstorming - Deliverables: Brainstorming documentation and item selection
Fifth week	Week 5: Mid-term Exam Briefing & Team Project (2) - Objectives: Refine Week 4 project deliverables and understand the midterm individual assignment - Activities: Finalize Week 4 design deliverables, and introduce the midterm individual assignment (Topic: TBD) - Deliverables: Team project deliverables and individual midterm project proposal (or plan)
Sixth week	Week 6: Moodboard & Collage Mapping (1) - Objectives: Understand the concept of design moodboards and apply them to campus space design. - Activities: Learn moodboard and collage mapping techniques; practice designing a student-centered university campus area (Teams select from: student union, restaurant, library, or community center). - Deliverables: Design concept and moodboard for the selected campus area.
Seventh week	Week 7: Moodboard & Collage Mapping (2) - Objectives: Refine campus space design and complete the visualization. - Activities: Conduct advanced team-based campus space design tasks and finalize the mapping work. - Deliverables: Final collage mapping and space design outcomes.
Eighth week	Week 8: Mid-term Presentation (Individual Task) - Objectives: Present individual project results and receive feedback. - Activities: Individual presentations and evaluations for the mid-term topic (TBD) - Deliverables: Mid-term presentation slides and final visualization outcomes.
Ninth week	Week 9: AI-Generated Animation & Film Introduction - Objectives: Understand techniques for creating AI-based animations and films. - Activities: Learn about AI-generated animation and film cases and production methods. - Deliverables: Practice results using AI video production tools.
Tenth week	Week 10: AI Commercial Video Production - Objectives: Gain experience in creating product promotional videos using AI. - Activities: Team project to create a short (~1 minute) commercial promotional video for a product during class hours. - Deliverables: 1-minute product promotional video.
Eleventh week	Week 11: Video Production on Designated Topic (TBD) - Objectives: Produce video content on a designated topic (TBD) and leverage AI tools - Activities: Create a 1-minute public service campaign or promotional video on the designated topic as a team project - Deliverables: Video on the designated topic
Twelfth week	Week 12: Final Project Planning & Scenario Development - Objectives: Establish the scenario for the final examination project. - Activities: Present usage scenarios for the products created for the mid-term exam and receive individual feedback. - Deliverables: Final video scenario plan and presentation materials.

Thirteenth week	Week 13: Final Video Production (1) - Objectives: Advance the scenario-based video production. - Activities: Intensive production of individual product usage scenario videos and final presentation videos; receive individual feedback. - Deliverables: Video draft in progress and development process records.
Fourteenth week	Week 14: Final Video Production (2) - Objectives: Complete the final outcomes and prepare for the presentation. - Activities: Intensive production of individual product usage scenario videos and final presentation videos; receive individual feedback. - Deliverables: Final video draft and development process records.
Fifteenth week	Week 15: Final Presentation - Objectives: Share and evaluate final project achievements. - Activities: Presentation of AI-generated videos; explanation of the development process. - Deliverables: Final video outcomes, presentation slides, and development process documentation.
Sixteenth week	

[7] Assignments

The first assignment	assignment	AI-Assisted Problem Definition and Design Solution Proposal on Designated Topic (TBD)	submission date	
	purpose	Propose a design solution for a designated topic utilizing AI tools		
	procedure & notice			
	references			
The second assignment	assignment	AI-Generated Video Presentation & Development Process Explanation	submission date	
	purpose	Produce a video on a designated topic leveraging generative AI skills learned throughout the semester		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Generative AI and Design 2		Course Number	0012505001		
Major / School Year	Dept. of Creative Design / 전학년		completion division /Grade evaluation	/		
Department/Professor	Division of Design /		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[16-215:화(7)(8)(9)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

본 과정은 생성형 AI를 활용한 디자인 프로세스를 이해하고, 사용자 중심의 문제 해결 과정을 바탕으로 새로운 제품과 사용자 경험을 기획·제안하는 프로젝트 중심 수업이다. 다양한 생성형 AI 도구를 디자인 과정에 적용하여 아이디어 발상, 컨셉 개발, 시각화, 검증 및 발표까지의 전과정을 경험하며, AI를 창의적인 디자인 도구로 활용하는 역량을 기른다.

※ 본 교과목은 특정 생성형 AI 도구의 사용법을 교육하는 것이 아니라, 프로젝트의 목적과 디자인 문제에 적합한 생성형 AI를 스스로 탐색·선택·활용하는 역량을 기르는 것을 목표로 한다. 따라서 학생들은 ChatGPT, Midjourney, Adobe Firefly, Gemini 등 다양한 생성형 AI를 자율적으로 선택하여 활용할 수 있다.

[2] Course Learning Outcomes

- 생성형 AI를 디자인 프로세스에 효과적으로 활용할 수 있다.
- 사용자 중심의 문제를 발견하고 새로운 제품 및 사용자 경험을 기획할 수 있다.
- 생성형 AI를 활용하여 제품 컨셉을 시각화하고 발전시킬 수 있다.
- 팀 프로젝트를 통해 협업 및 의사소통 능력을 향상시킬 수 있다.
- AI 활용 과정과 결과를 논리적으로 정리하고 발표할 수 있다.

[3] Class Delivery Method

- 실습 팀 프로젝트 진행
- 토론 및 발표

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
20 %	20 %	60 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션 및 팀 구성
Second week	문제 발견 (Discover) 1
Third week	문제 발견 (Discover) 2
Fourth week	사용자 이해 (Define) 1
Fifth week	사용자 이해 (Define) 2
Sixth week	아이디어 발상 (Ideate) 1
Seventh week	아이디어 발상 (Ideate) 2
Eighth week	중간고사
Ninth week	컨셉 구체화 (Develop) 1
Tenth week	컨셉 구체화 (Develop) 2
Eleventh week	사용자 경험 설계 (Experience Design) 1
Twelfth week	사용자 경험 설계 (Experience Design) 2
Thirteenth week	제안 (Deliver) 1
Fourteenth week	제안 (Deliver) 2
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Interactive Prototyping		Course Number	0012028001		
Major / School Year	Dept. of Creative Design / 전학년		completion division /Grade evaluation	/		
Department/Professor	Division of Design /		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room	[16-215:화(4)(5)(6)]			
Office hours			Medium of Instruction	EN		

[1] Outline / Purpose

* This course is intended for senior (fourth-year) undergraduate students majoring in design and is closely aligned with the Graduation Project.

This course introduces students to the concepts and practices of interactive prototyping through physical computing technologies for design applications. The primary goal is to enable students to develop functional working mockups for their graduation projects by integrating design concepts with interactive technologies. Students will learn the fundamentals of Arduino-based physical computing, including sensor and actuator control, circuit design, and programming. Throughout the semester, they will transform design ideas into interactive prototypes, conduct iterative testing and refinement based on user feedback, and develop practical skills necessary for producing exhibition-ready interactive design outcomes.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Explain the fundamental concepts of interactive prototyping and physical computing.
2. Design and implement basic electronic circuits and Arduino programs using sensors and actuators.
3. Develop functional working mockups that effectively communicate design concepts.
4. Design and refine interactive experiences based on user-centered design principles.
5. Identify, troubleshoot, and resolve hardware and software issues encountered during prototype development.
6. Effectively present the relationship between design concepts and technical implementation through a functional prototype demonstration.

[3] Class Delivery Method

This course is conducted as a project-based studio that combines lectures, hands-on laboratory exercises, and individual project development.

- Lectures introduce the theoretical foundations of interactive design, physical computing, and Arduino programming.
- Practical laboratory sessions provide step-by-step experience in circuit construction, sensor integration, actuator control, and programming.
- Students develop individual working mockups based on their graduation project concepts under continuous instructor supervision.
- Individual consultations, technical coaching, code debugging, and circuit reviews are provided throughout the development process.
- User testing and iterative refinement are conducted to improve interaction quality and prototype reliability.
- Student progress is evaluated through a midterm concept review and a final presentation, including a live demonstration of the completed interactive prototype and an explanation of its design concept, technical implementation, and future development potential.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	60 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kibeom Byun	Publisher		Textbook	Slide Notes	Issued year	2026

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Massimo Banzi, Michael Shiloh	Publisher	Maker Media	Textbook	Getting Started with Arduino	Issued year	2014
(2)	Author	Tom Igoe	Publisher	O'Reilly Media	Textbook	Making Things Talk	Issued year	2017
(3)	Author	Dan O'Sullivan Tom Igoe	Publisher	Thomson Course Technology	Textbook	Physical Computing	Issued year	2014
(4)	Author	SparkFun	Publisher	SparkFun Learn	Textbook	Electronics and Arduino Tutorials	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction & Concepts of Interactive Prototyping • Introduction to the concept of working mockups and their application in design graduation projects • Overview of physical computing, interaction design, and sensor-based design case studies • Individual review of students' graduation project topics and assessment of technical feasibility
Second week	Physical Computing and Design Application • Introduction to physical computing • Applications of physical computing in design projects
Third week	Physical Computing with Arduino: Basics of Arduino • Fundamentals of physical computing using Arduino • Functions and roles of Arduino
Fourth week	No Class (Holiday: Chuseok)
Fifth week	Programming for Arduino II • Advanced Arduino programming • Creating functions and implementing logic using conditional statements
Sixth week	Physical Computing with Arduino: Sensors • Arduino and input: sensors • Types and functions of sensors
Seventh week	Physical Computing with Arduino: Actuators • Arduino and output: actuators • Types and functions of actuators
Eighth week	Midterm • Brainstorming and ideation for developing a working mockup
Ninth week	Individual Working Mockup Development I • Circuit design and coding for individual projects (Part I) • Connecting sensor inputs and output devices (Part I)
Tenth week	Individual Working Mockup Development II • Circuit design and coding for individual projects (Part II) • Connecting sensor inputs and output devices (Part II) • Code debugging and circuit testing (Part I) • Troubleshooting and system stabilization (Part I)
Eleventh week	Individual Working Mockup Development III • Code debugging and circuit testing (Part II) • Troubleshooting and system stabilization (Part II) • Improving interaction quality (Part I) • User testing and feedback integration (Part I)
Twelfth week	Individual Working Mockup Development IV • Improving interaction quality (Part II) • User testing and feedback integration (Part II) • Repeated testing for exhibition environments (Part I)
Thirteenth week	Individual Working Mockup Development V • Improving interaction quality (Part III) • User testing and feedback integration (Part III) • Repeated testing for exhibition environments (Part II)
Fourteenth week	Final Prototype Review & Presentation Preparation • Planning the prototype demonstration • Organizing the project description, user scenario, and technical structure

	• Reviewing installation and operational considerations for exhibition
Fifteenth week	Final Examination / Final Working Mockup Presentation • Demonstration of the final working prototype • Presentation on the relationship between the design concept and technical implementation • Comprehensive evaluation of the final outcome, development process, and future improvements
Sixteenth week	Make-up class week

[7] Assignments

The first assignment	assignment	Basic Input-Output Interaction Exercise	submission date	2026-09-29 Tue
	purpose	To understand the basic structure of interaction in which output devices, such as LEDs, sound devices, or motors, respond to input from sensors or buttons.		
	procedure & notice	- Using Arduino, connect at least one input device and at least one output device. - In addition to demonstrating whether the system operates correctly, explain what kind of feedback the user receives in response to a specific action. - Submit photographs of the circuit, the source code, a video demonstrating the operation, and a brief written explanation. - Reference materials: course materials, official Arduino examples, and circuit diagrams provided during class.		
	references			
The second assignment	assignment	Interactive Prototype Proposal for a Graduation Project	submission date	2026-10-20 Tue
	purpose	To design the structure of a working prototype that can be applied to the student's graduation project or individual design project.		
	procedure & notice	- Describe the project concept, user scenario, required input and output devices, expected components, and anticipated level of implementation difficulty. - Clearly explain how the technical implementation supports and strengthens the design concept. - Focus on the core user experience rather than designing excessively complex functions, while considering the feasibility of implementation. - Reference materials: physical computing case studies, graduation project references, and feedback materials provided during class.		
	references			
The third assignment	assignment	Development of a Final Interactive Working Prototype	submission date	2026-12-08 Tue
	purpose	To create a fully functional prototype that reflects the project's design concept and user scenario.		
	procedure & notice	- Create a functional outcome by integrating sensors, a control board, output devices, and a physical mock-up. - The final presentation must include a live demonstration of the prototype. - Submit the source code, circuit configuration, documentation of the production process, a description of the problem-solving process, and a video demonstrating the final operation. - Reference materials: course materials, the Arduino Reference, and project-specific reference materials.		
	references			

Syllabus

2026 - 2학기

Date : 2026.08.07

Time : AM 10:55

CourseTitle	Interactive Prototyping		Course Number	0012028002			
Major / School Year	Dept. of Creative Design / 전학년		completion division / Grade evaluation	/			
Department/Professor	Division of Design /		Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number		A weekday / class / lecture room	[16-215:목(4)(5)(6)]				
Office hours			Medium of Instruction	EN			

[1] Outline / Purpose

* This course is intended for senior (fourth-year) undergraduate students majoring in design and is closely aligned with the Graduation Project.

This course introduces students to the concepts and practices of interactive prototyping through physical computing technologies for design applications. The primary goal is to enable students to develop functional working mockups for their graduation projects by integrating design concepts with interactive technologies. Students will learn the fundamentals of Arduino-based physical computing, including sensor and actuator control, circuit design, and programming. Throughout the semester, they will transform design ideas into interactive prototypes, conduct iterative testing and refinement based on user feedback, and develop practical skills necessary for producing exhibition-ready interactive design outcomes.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Explain the fundamental concepts of interactive prototyping and physical computing.
2. Design and implement basic electronic circuits and Arduino programs using sensors and actuators.
3. Develop functional working mockups that effectively communicate design concepts.
4. Design and refine interactive experiences based on user-centered design principles.
5. Identify, troubleshoot, and resolve hardware and software issues encountered during prototype development.
6. Effectively present the relationship between design concepts and technical implementation through a functional prototype demonstration.

[3] Class Delivery Method

This course is conducted as a project-based studio that combines lectures, hands-on laboratory exercises, and individual project development.

- Lectures introduce the theoretical foundations of interactive design, physical computing, and Arduino programming.
- Practical laboratory sessions provide step-by-step experience in circuit construction, sensor integration, actuator control, and programming.
- Students develop individual working mockups based on their graduation project concepts under continuous instructor supervision.
- Individual consultations, technical coaching, code debugging, and circuit reviews are provided throughout the development process.
- User testing and iterative refinement are conducted to improve interaction quality and prototype reliability.
- Student progress is evaluated through a midterm concept review and a final presentation, including a live demonstration of the completed interactive prototype and an explanation of its design concept, technical implementation, and future development potential.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	60 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

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(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Massimo Banzi, Michael Shiloh	Publisher	Maker Media	Textbook	Getting Started with Arduino	Issued year	2014
(2)	Author	Tom Igoe	Publisher	O'Reilly Media	Textbook	Making Things Talk	Issued year	2017
(3)	Author	Dan O'Sullivan Tom Igoe	Publisher	Thomson Course Technology	Textbook	Physical Computing	Issued year	2014
(4)	Author	SparkFun	Publisher	SparkFun Learn	Textbook	Electronics and Arduino Tutorials	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction & Concepts of Interactive Prototyping • Introduction to the concept of working mockups and their application in design graduation projects • Overview of physical computing, interaction design, and sensor-based design case studies • Individual review of students' graduation project topics and assessment of technical feasibility
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Fourteenth week	Final Prototype Review & Presentation Preparation • Planning the prototype demonstration • Organizing the project description, user scenario, and technical structure • Reviewing installation and operational considerations for exhibition

Fifteenth week	Final Examination / Final Working Mockup Presentation • Demonstration of the final working prototype • Presentation on the relationship between the design concept and technical implementation • Comprehensive evaluation of the final outcome, development process, and future improvements
Sixteenth week	Make-up class week

[7] Assignments

The first assignment	assignment	Basic Input-Output Interaction Exercise	submission date	2026-10-01 Thu
	purpose	To understand the basic structure of interaction in which output devices, such as LEDs, sound devices, or motors, respond to input from sensors or buttons.		
	procedure & notice	- Using Arduino, connect at least one input device and at least one output device. - In addition to demonstrating whether the system operates correctly, explain what kind of feedback the user receives in response to a specific action. - Submit photographs of the circuit, the source code, a video demonstrating the operation, and a brief written explanation. - Reference materials: course materials, official Arduino examples, and circuit diagrams provided during class.		
	references			
The second assignment	assignment	Interactive Prototype Proposal for a Graduation Project	submission date	2026-10-22 Thu
	purpose	To design the structure of a working prototype that can be applied to the student's graduation project or individual design project.		
	procedure & notice	- Describe the project concept, user scenario, required input and output devices, expected components, and anticipated level of implementation difficulty. - Clearly explain how the technical implementation supports and strengthens the design concept. - Focus on the core user experience rather than designing excessively complex functions, while considering the feasibility of implementation. - Reference materials: physical computing case studies, graduation project references, and feedback materials provided during class.		
	references			
The third assignment	assignment	Development of a Final Interactive Working Prototype	submission date	2026-12-10 Thu
	purpose	To create a fully functional prototype that reflects the project's design concept and user scenario.		
	procedure & notice	- Create a functional outcome by integrating sensors, a control board, output devices, and a physical mock-up. - The final presentation must include a live demonstration of the prototype. - Submit the source code, circuit configuration, documentation of the production process, a description of the problem-solving process, and a video demonstrating the final operation. - Reference materials: course materials, the Arduino Reference, and project-specific reference materials.		
	references			