Advanced Ceramic Devices and Processing

Course Name	Course type (credit/hours)	전선(3/3)	Course code	D086
	Target students Division/major/grade	첨단신소재공학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화F(팔207) 목E(팔207)(팔207)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	세라믹재료		
	Related basic courses	재료과학, 재료열역학, 재료물리학		
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)			조성범	
	Office Room Number	팔달관 709호	Office phone Number	e-mail	
	Office hours		Homepage address		msq.ajou.ac.kr
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number	e-mail	jdwjyl2007@ajou.ac.kr

1. Introduction

This class covers ceramic processes utilized in a variety of devices based on ceramic materials. Starting with a basic understanding of ceramics and their unique properties, we will study the electrical and energy applications of ceramic materials, including some of the industrys most utilized electrical and energy applications of ceramic materials, including capacitors and batteries, which are the most utilized in industry.

From the production and characterization of ceramic powders and slurries to greenbody forming and sintering processes. You will explore the key processes involved in ceramic manufacturing. You will also learn about advanced processing techniques such as tape casting, injection molding, extrusion, and additive manufacturing. Students will learn about the different processing technologies and the impact of various process factors on the final properties of the product. influence of various process factors on the final properties of the product.

2. Course Objectives

3. Class types and activities

Lecturing based on course materials

4. Teaching Method

☑ lecture		☐ discussion and debate	
☐ team project(presentation and case studies)		☐ experiments(role-playing,etc)	
☐ designing and production		☐ on-site learning(on-site training)	
☐ others			

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

일반물리학, 재료과학I, 세라믹재료

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	30	10	
midterm exam	1	30	
final exam	1	30	
quiz			
presentation			
discussion			
homework	2	30	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Principles of Ceramic Processing	James Reed	Wiley	1995
Sub	Ceramic Processing and Sintering	M. N. Rahaman	CRC Press	2003
Ref.	Modern Ceramic Engineering	D. W. Richardson	Taylor and Francis	2006

10. Class system and Class shedule

1) 세라믹 소재를 활용한 전자/에너지 응용소자에 대한 강의
2) 학생 개별 흥미에 따른 응용 분야 및 산업에 관련된 조사 관련 과제 부여 및 피드백
3) 세라믹 공정에 대한 강의
4) 관련 응용 분야 공정 설계에 관련된 과제 부여 및 피드백

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Review on Ceramic Materials	E	조성범			
2	Electrical Applications of Ceramics I	E	조성범			
3	Electrical Applications of Ceramics II	E	조성범			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Energy Applicatoin of Ceramics	E	조성범			
5	Overview on Ceramic Processing	E	조성범			
6	Powder Preparation	E	조성범			
7	Powder Characterization	E	조성범			
8	Mid-term	E	조성범			
9	Additives	E	조성범			
10	Colloidal Processing I	E	조성범			
11	Colloidal Processing II	E	조성범			
12	Green body I	E	조성범			
13	Green body II	E	조성범			
14	Sintering I	E	조성범			
15	Singering II	E	조성범			
16	Final	E	조성범			

11. Other items of notification

Advanced Listening and Reading in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X227
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	수D(다109) 금D(다109)(다109)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Joshua Houser (조교수/대학 다산학부대학)			
	Office Room Number	성호관 421호	Office phone Number	2844	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course provides students with an opportunity to improve the rreading and listening skills in English. Students will be also able to increase the awareness of other cultures including the North American culture by reading articles about a wide variety ofcurrentissues.

2. Course Objectives

3. Class types and activities

(1) Students are required to hand in a variety of homework assignments such a summary of the　　　 textbook material or a short report on related topics.
(2) Students are expected to choose a chapter and make a grouppresentation on a related topic.
(3) Regular quizzes (four quizzes) will be given in class to ensure that students are learning the　　　 course material.
(4) Students are responsible for attending class regularly. Students must obtain specific information about the material covered in class on the day they were absent and hand in all　　　 the homework assignments. Furthermore, unexcused absences will have the following　　　　　 consequences on the students' final score:
1 unexcused absence = 0 point reduction
2 unexcused absence = 2 point reduction
3 unexcused absence = 3 point reduction
4 unexcused absence = 4 point reduction

cf. 2 times late = 1 unexcused absence
　　 arriving more than 20 minutes late = 1 unexcused absence

(5) Absences are excused only in the case of a medical excuse verified by a doctor's note (prescriptions are not allowed), a military excuse, or a death in the family.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[V] others   ( )

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		20	
final exam		20	
quiz		30	
presentation		10	
discussion		10	
homework		10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	Longman Academic Reading Series	Judy L. Miller, Robert F. Cohen	Pearson	2014

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	course intro	K	Joshua Houser			
2	Chapter 1 (Reading 1)	K	Joshua Houser			
3	Chapter 1 (Reading 3)	K	Joshua Houser			
4	Chapter 2 (Reading 1)	K	Joshua Houser			
5	Chapter 2 (Reading 2)	K	Joshua Houser			
6	Chapter 3 (Reading 1/2)	K	Joshua Houser			
7	Chapter 4 (Reading 2)	K	Joshua Houser			
8	mid-term exam	K	Joshua Houser			
9	Chapter 5 (Reading 1)	K	Joshua Houser			
10	Chapter 5 (Reading 2)	K	Joshua Houser			
11	Chapter 6 (Reading 1)	K	Joshua Houser			
12	Chapter 6 (Reading 2)	K	Joshua Houser			
13	Chapter 7 (Reading 1)	K	Joshua Houser			
14	Chapter 7 (Reading 2)	K	Joshua Houser			
15	Chapter 9 (Reading 2)	K	Joshua Houser			
16	final exam	K	Joshua Houser			

11. Other items of notification

Advanced Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X217
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(다B109) 목A(다B109)(다B109)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Brad Crawford (조교수/대학 다산학부대학)				
	Office Room Number	다산관 215-1	Office phone Number	2816	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

Advanced English 1 is a course for students with advanced English skills. Students must pass an interview to be granted enrollment to this class. This course concentrates on English writing and speaking. Speaking lessons include pair work, small group tasks as well as class discussions, activities, and debates. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

3. Class types and activities

Speaking lessons include pair work, small group discussions, and task-based communicative activities. Writing lessons focus on paragraph-writing skills, and include lectures, in-class writing practice and homework writing assignments.

4. Teaching Method

| ☑ lecture | ☑ discussion and debate |

☑ lecture   ☑ discussion and debate

☑ team project(presentation and case studies)   ☑ experiments(role-playing,etc)

☑ designing and production   ☑ on-site learning(on-site training)

☑ others (The class will feature lectures, pair-work, group discussions, and whole-class discussions.

5. Support Systems in Use

☑ e-class   ☑ automatic recording system   ☑ web-based assignment

☑ cyber lecture   ☑ blended learning(combination of online and offline teaching)

☑ class behavior analyazing system ☑ others ( )

6. Teaching Tools

☑ PBL(Problem Based Learning)   ☑ CBL(Case Based Learning)

☑ TBL(Team Based Learning)   ☑ others ( )

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		15	
final exam		15	
quiz			
presentation		20	
discussion			
homework		20	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World Link 2 3rd edition,	James Morgan & Nancy Davis	National Geographic Learning, Cengage Learning	2016

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interview with the instructor Class placement	E	Brad Crawford			
2	Course & syllabus introduction, Introductions and activities Speaking & writing differences, the writing process *Brainstorming due	E	Brad Crawford			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Paragraph Structure, topic, supporting, & concluding sentences Writing with unity & coherence *1st draft due	E	Brad Crawford			
4	The sentence: capital letters, punctuation, fragments, & run-ons	E	Brad Crawford			
5	Unit 1: My life *final draft due	E	Brad Crawford			
6	Unit 2: Let's eat!	E	Brad Crawford			
7	Unit 3: Mysteries: Midterm Review	E	Brad Crawford			
8	Midterm Exam	E	Brad Crawford			
9	Unit 4: Trends Assign Video Project	E	Brad Crawford			
10	Unit 5: Out and About Video Project: Groups	E	Brad Crawford			
11	Unit 6: Goals Video Project: Topics	E	Brad Crawford			
12	Day 1: Work on Script in class Story Maps Due Day 2: Script if needed in class	E	Brad Crawford			
13	Unit 7: Celebrations Video Script due	E	Brad Crawford			
14	Video Project Due: bring to class on USB and watch videos.	E	Brad Crawford			
15	Unit 8: Storytelling Final exam review	E	Brad Crawford			
16	Final Exam	E	Brad Crawford			

11. Other items of notification

Advanced Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X218
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(성105) 목B(성105)(성105)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Joshua Houser (조교수/대학 다산학부대학)			
	Office Room Number	성호관 421호	Office phone Number	2844	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course provides students with an opportunity to improve the rreading and listening skills in English. Students will be also able to increase the awareness of other cultures including the North American culture by reading articles about a wide variety ofcurrentissues.

2. Course Objectives

3. Class types and activities

(1) Students are required to hand in a variety of homework assignments such a summary of the textbook material or a short report on related topics.
(2) Students are expected to choose a chapter and make a grouppresentation on a related topic.
(3) Regular quizzes (four quizzes) will be given in class to ensure that students are learning the course material.
(4) Students are responsible for attending class regularly. Students must obtain specific information about the material covered in class on the day they were absent and hand in all the homework assignments. Furthermore, unexcused absences will have the following consequences on the students' final score:
1 unexcused absence = 0 point reduction
2 unexcused absence = 2 point reduction
3 unexcused absence = 3 point reduction
4 unexcused absence = 4 point reduction

cf. 2 times late = 1 unexcused absence
    arriving more than 20 minutes late = 1 unexcused absence

(5) Absences are excused only in the case of a medical excuse verified by a doctor's note (prescriptions are not allowed), a military excuse, or a death in the family.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[V] others ( )

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		20	
final exam		20	
quiz		30	
presentation		10	
discussion		10	
homework		10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	World English 2 Third Edition	Martin Milner	Cengage Learning	2014

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	course intro	K	Joshua Houser			
2	Chapter 1 (Reading 1)	K	Joshua Houser			
3	Chapter 1 (Reading 3)	K	Joshua Houser			
4	Chapter 2 (Reading 1)	K	Joshua Houser			
5	Chapter 2 (Reading 2)	K	Joshua Houser			
6	Chapter 3 (Reading 1/2)	K	Joshua Houser			
7	Chapter 4 (Reading 2)	K	Joshua Houser			
8	mid-term exam	K	Joshua Houser			
9	Chapter 5 (Reading 1)	K	Joshua Houser			
10	Chapter 5 (Reading 2)	K	Joshua Houser			
11	Chapter 6 (Reading 1)	K	Joshua Houser			
12	Chapter 6 (Reading 2)	K	Joshua Houser			
13	Chapter 7 (Reading 1)	K	Joshua Houser			
14	Chapter 7 (Reading 2)	K	Joshua Houser			
15	Chapter 9 (Reading 2)	K	Joshua Houser			
16	final exam	K	Joshua Houser			

11. Other items of notification

Advanced Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X219
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(율254) 목B(율254)(율254)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Brad Crawford (조교수/대학 다산학부대학)				
	Office Room Number	다산관 215-1	Office phone Number	2816	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

Advanced English 1 is a course for students with advanced English skills. Students must pass an interview to be granted enrollment to this class. This course concentrates on English writing and speaking. Speaking lessons include pair work, small group tasks as well as class discussions, activities, and debates. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

3. Class types and activities

Speaking lessons include pair work, small group discussions, and task-based communicative activities. Writing lessons focus on paragraph-writing skills, and include lectures, in-class writing practice and homework writing assignments.

4. Teaching Method

| ☑ | lecture | ☑ | discussion and debate |

☑ lecture   ☑ discussion and debate

☑ team project(presentation and case studies)   ☑ experiments(role-playing,etc)

☑ designing and production   ☑ on-site learning(on-site training)

☑ others (The class will feature lectures, pair-work, group discussions, and whole-class discussions.

5. Support Systems in Use

☑ e-class   ☑ automatic recording system   ☑ web-based assignment

☑ cyber lecture   ☑ blended learning(combination of online and offline teaching)

☑ class behavior analyazing system   ☑ others ( )

6. Teaching Tools

☑ PBL(Problem Based Learning)   ☑ CBL(Case Based Learning)

☑ TBL(Team Based Learning)   ☑ others ( )

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		15	
final exam		15	
quiz			
presentation		20	
discussion			
homework		20	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World Link 2 3rd edition,	James Morgan & Nancy Davis	National Geographic Learning, Cengage Learning	2016

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interview with the instructor Class placement	E	Brad Crawford			
2	Course & syllabus introduction, Introductions and activities Speaking & writing differences, the writing process *Brainstorming due	E	Brad Crawford			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Paragraph Structure, topic, supporting, & concluding sentences Writing with unity & coherence *1st draft due	E	Brad Crawford			
4	The sentence: capital letters, punctuation, fragments, & run-ons	E	Brad Crawford			
5	Unit 1: My life *final draft due	E	Brad Crawford			
6	Unit 2: Let's eat!	E	Brad Crawford			
7	Unit 3: Mysteries: Midterm Review	E	Brad Crawford			
8	Midterm Exam	E	Brad Crawford			
9	Unit 4: Trends Assign Video Project	E	Brad Crawford			
10	Unit 5: Out and About Video Project: Groups	E	Brad Crawford			
11	Unit 6: Goals Video Project: Topics	E	Brad Crawford			
12	Day 1: Work on Script in class Story Maps Due Day 2: Script if needed in class	E	Brad Crawford			
13	Unit 7: Celebrations Video Script due	E	Brad Crawford			
14	Video Project Due: bring to class on USB and watch videos.	E	Brad Crawford			
15	Unit 8: Storytelling Final exam review	E	Brad Crawford			
16	Final Exam	E	Brad Crawford			

11. Other items of notification

Advanced Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X220
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(다506) 수A(다506)(다506)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Brad Crawford (조교수/대학 다산학부대학)				
	Office Room Number	다산관 215-1	Office phone Number	2816	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

Advanced English 1 is a course for students with advanced English skills. Students must pass an interview to be granted enrollment to this class. This course concentrates on English writing and speaking. Speaking lessons include pair work, small group tasks as well as class discussions, activities, and debates. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

3. Class types and activities

Speaking lessons include pair work, small group discussions, and task-based communicative activities. Writing lessons focus on paragraph-writing skills, and include lectures, in-class writing practice and homework writing assignments.

4. Teaching Method

| V | lecture | V | discussion and debate |

| V | team project(presentation and case studies) | V | experiments(role-playing,etc) |

| V | designing and production | V | on-site learning(on-site training) |

| V | others (The class will feature lectures, pair-work, group discussions, and whole-class discussions.

5. Support Systems in Use

| V | e-class | V | automatic recording system | V | web-based assignment |

| V | cyber lecture | V | blended learning(combination of online and offline teaching) |

| V | class behavior analyazing system | V | others ( ) |

6. Teaching Tools

| V | PBL(Problem Based Learning) | V | CBL(Case Based Learning) |

| V | TBL(Team Based Learning) | V | others ( ) |

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		15	
final exam		15	
quiz			
presentation		20	
discussion			
homework		20	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World Link 2 3rd edition,	James Morgan & Nancy Davis	National Geographic Learning, Cengage Learning	2016

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interview with the instructor Class placement	E	Brad Crawford			
2	Course & syllabus introduction, Introductions and activities Speaking & writing differences, the writing process *Brainstorming due	E	Brad Crawford			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Paragraph Structure, topic, supporting, & concluding sentences Writing with unity & coherence *1st draft due	E	Brad Crawford			
4	The sentence: capital letters, punctuation, fragments, & run-ons	E	Brad Crawford			
5	Unit 1: My life *final draft due	E	Brad Crawford			
6	Unit 2: Let's eat!	E	Brad Crawford			
7	Unit 3: Mysteries: Midterm Review	E	Brad Crawford			
8	Midterm Exam	E	Brad Crawford			
9	Unit 4: Trends Assign Video Project	E	Brad Crawford			
10	Unit 5: Out and About Video Project: Groups	E	Brad Crawford			
11	Unit 6: Goals Video Project: Topics	E	Brad Crawford			
12	Day 1: Work on Script in class Story Maps Due Day 2: Script if needed in class	E	Brad Crawford			
13	Unit 7: Celebrations Video Script due	E	Brad Crawford			
14	Video Project Due: bring to class on USB and watch videos.	E	Brad Crawford			
15	Unit 8: Storytelling Final exam review	E	Brad Crawford			
16	Final Exam	E	Brad Crawford			

11. Other items of notification

Advanced Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X221
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(성236) 수C(성236)(성236)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Brad Crawford (조교수/대학 다산학부대학)				
	Office Room Number	다산관 215-1	Office phone Number	2816	e-mail	
	Office hours			Homepage address		
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

Advanced English 1 is a course for students with advanced English skills. Students must pass an interview to be granted enrollment to this class. This course concentrates on English writing and speaking. Speaking lessons include pair work, small group tasks as well as class discussions, activities, and debates. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

3. Class types and activities

Speaking lessons include pair work, small group discussions, and task-based communicative activities. Writing lessons focus on paragraph-writing skills, and include lectures, in-class writing practice and homework writing assignments.

4. Teaching Method

| ☑ | lecture | ☑ | discussion and debate |

☑ lecture   ☑ discussion and debate

☑ team project(presentation and case studies)   ☑ experiments(role-playing,etc)

☑ designing and production   ☑ on-site learning(on-site training)

☑ others (The class will feature lectures, pair-work, group discussions, and whole-class discussions.

5. Support Systems in Use

☑ e-class   ☑ automatic recording system   ☑ web-based assignment

☑ cyber lecture   ☑ blended learning(combination of online and offline teaching)

☑ class behavior analyazing system   ☑ others ( )

6. Teaching Tools

☑ PBL(Problem Based Learning)   ☑ CBL(Case Based Learning)

☑ TBL(Team Based Learning)   ☑ others ( )

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		15	
final exam		15	
quiz			
presentation		20	
discussion			
homework		20	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World Link 2 3rd edition,	James Morgan & Nancy Davis	National Geographic Learning, Cengage Learning	2016

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interview with the instructor Class placement	E	Brad Crawford			
2	Course & syllabus introduction, Introductions and activities Speaking & writing differences, the writing process *Brainstorming due	E	Brad Crawford			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Paragraph Structure, topic, supporting, & concluding sentences Writing with unity & coherence *1st draft due	E	Brad Crawford			
4	The sentence: capital letters, punctuation, fragments, & run-ons	E	Brad Crawford			
5	Unit 1: My life *final draft due	E	Brad Crawford			
6	Unit 2: Let's eat!	E	Brad Crawford			
7	Unit 3: Mysteries: Midterm Review	E	Brad Crawford			
8	Midterm Exam	E	Brad Crawford			
9	Unit 4: Trends Assign Video Project	E	Brad Crawford			
10	Unit 5: Out and About Video Project: Groups	E	Brad Crawford			
11	Unit 6: Goals Video Project: Topics	E	Brad Crawford			
12	Day 1: Work on Script in class Story Maps Due Day 2: Script if needed in class	E	Brad Crawford			
13	Unit 7: Celebrations Video Script due	E	Brad Crawford			
14	Video Project Due: bring to class on USB and watch videos.	E	Brad Crawford			
15	Unit 8: Storytelling Final exam review	E	Brad Crawford			
16	Final Exam	E	Brad Crawford			

11. Other items of notification

Algorithms

Course Name	Course type (credit/hours)	전필(3/3)	Course code	F058
	Target students Division/major/grade	소프트웨어학과/2/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(팔325) 목B(팔325)(팔325)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	자료구조 (Data Structure)		
	Related basic courses	이산수학 (Discrete Math)		
	Recommanded concurrent courses	인공지능 (Artificial Intelligence)		
	Related advanced courses	계산이론 (Theory of Computation)		

Instructor	Name (title/division)	이슬 (부교수/소프트웨어융합대학 소프트웨어학과)				
	Office Room Number	산학협력원	Office phone Number	3839	e-mail	
	Office hours		Homepage address		dilab.ajou.ac.kr	

Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number	e-mail	

1. Introduction

This course deals with principles and techniques for design and analysis of computer algorithms. The topics covered are mathematical induction, asymptotic analysis of algorithm efficiency, and algorithm design techniques including divide-and-conquer, dynamic programming, greedy method, branch-and-bound, backtracking, and iterative improvements. Elements of computational complexity theory, mostly on NP-completeness, is introduced and it is also discussed how to cope with computationally intractable problems.

2. Course Objectives

어떠한 응용분야이든지 좋은 컴퓨터 소프트웨어를 작성하거나 개발하려면 효율적인 알고리즘에 기반해야 한다. 컴퓨터 하드웨어가 아무리 우수하더라도 소프트웨어가 비효율적인 알고리즘에 기반하고 있으면 효율적인 정보처리를 기대할 수 없다. 본 과목에서는 주어진 알고리즘의 효율성을 분석하는 원리 및 기술을 학습하고, 또한 효율적인 알고리즘을 설계하는 기법들을 배운다. 졸업 후에 취업을 하든지 대학원에 진학을 하든지 프로그램을 작성하는 능력은 누구나 기본적으로 갖추고 있어야 한다. 어떠한 문제를 해결하는 프로그램을 작성하게 될는지는 미리 알 수 없다. 업무를 수행하거나 연구를 수행할 때, 이미 잘 알려진 문제를 해결해야 하는 경우라면 잘 알려진 알고리즘이 있을 것이며, 본 과목에서 배운 알고리즘을 사용할 수 있을 것이다. 새로운 문제를 해결해야 하는 경우라면 본 과목에서 학습한 효율적인 알고리즘의 설계 기법을 적용할 수 있을 것이다.

The goal of this course is to enable students to recognize, analyze, and solve algorithmic problems. At the end of the course, students should be able apply core algorithmic problems that underlie many programming tasks, identify and use appropriate algorithmic techniques to solve those problems, and analyze and compare the performance of algorithmic solutions.

본 과목을 수강하는 3, 4 학년생들은 전산학의 다양한 분야의 과목들을 이미 수강하여 그 분야에서 다루는 문제들과 그 해법들에 익숙할 것이다. 또한 여러 분야에서 공통으로 다루는 문제가 있다는 사실을 알 것이며, 또한 겉으로는 달라 보이는 문제들이지만 본질적으로는 같은 문제임을 인지하는 경우도 있을 것이다. 본 과목에서는 이러한 문제들을 추상화하고 이들을 해결하는 알고리즘 또는 알고리즘을 설계하는 기법을 학습함으로서 전산학의 다양한 분야의 연관관계를 이해하고 이들을 관통하는 조망을 얻는 기회가 될 것이다.

컴퓨터 알고리즘의 디자인과 분석을 위한 원리와 기법을 학습하여 실제의 문제들을 해결하는 효율적인 알고리즘들을

3. Class types and activities

Mostly lectures.

Assignments consist of exercise problems on algorithm efficiency analysis, algorithm designs, and algorithm correctness. Students are supposed to invest considerable amount of time to understand course material and to solve assigment problems.

4. Teaching Method

[V] lecture

[ ] team project(presentation and case studies)

[ ] designing and production

[ ] others

[ ] discussion and debate

[ ] experiments(role-playing,etc)

[ ] on-site learning(on-site training)

5. Support Systems in Use

[V] e-class

[ ] cyber lecture

[ ] class behavior analyazing system

[ ] automatic recording system

[ ] blended learning(combination of online and offline teaching)

[ ] others

[ ] web-based assignment

6. Teaching Tools

[V] PBL(Problem Based Learning)

[ ] TBL(Team Based Learning)

[V] CBL(Case Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

prerequisite knowledge: computer programming, discrete mathematics, data structures

tools: C language, ability to read textbook written in English.

기초지식: 컴퓨터 프로그래밍, 이산수학, 자료구조

도구능력: C 언어, 코드 리딩

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5%	
midterm exam	1	45%	
final exam	1	45%	
quiz			
presentation			
discussion			
homework	8-10	5%	graded based on submitted/not submitted
etc			
study hours	5		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Foundations of Algorithms, 5th edition	Richard Neapolitan	Jones & Bartlett	2015
Sub	The Algorithm Design Manual	Steven S. Skiena	Springer	2008

10. Class system and Class shedule

In the beginning of the course, concepts of algorithms, mathematical induction, aymptotic analysis are taught. The algorithm design techniques follow including dive-and-conquer. dynamic programming, greedy method, and iterative improvements. Then the students will learn that there are probelms that do not have efficient algorithms, and how to cope with such problems.

강의 초반에는 알고리즘의 정의, 수학적 귀납법, 알고리즘 효율성의 점근적 분석법 등을 배운다. 그 다음에는 분할정복, 동적계획법, 그리디 방법, 퇴각검색, 분지한정 등의 알고리즘 설계 기법을 공부한다. 강의 후반에는 효율적인 알고리즘이 존재하지 않는 문제들이 있다는 사실을 배우고, 그러한 문제들을 다루는 방법에 대해서 공부한다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	K	이슬			
2	Analysis of algorithm efficiency	K	이슬			
3	Divide-and-Conquer	K	이슬			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Divide-and-Conquer	K	이슬			
5	Sorting and Searching	K	이슬			
6	Sorting and Searching	K	이슬			
7	Dynamic Programming	K	이슬			
8	중간고사	K	이슬			
9	Dynamic Programming	K	이슬			
10	Geedy Approaches	K	이슬			
11	Geedy Approaches	K	이슬			
12	Graph Algorithms	K	이슬			
13	Backtracking	K	이슬			
14	Branch-and-Bound	K	이슬			
15	Intractable Problems/NP-hard Problems	K	이슬			
16	기말고사	K	이슬			

11. Other items of notification

Algorithms

Course Name	Course type (credit/hours)	전필(3/3)	Course code	F060
	Target students Division/major/grade	소프트웨어학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화C(팔409) 금C(팔409)(팔409)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	Data structure		
	Related basic courses	Discrete mathematics		
	Recommanded concurrent courses			
	Related advanced courses	Advanced algorithms, advanced data structures		

Instructor	Name (title/division)	HAMANDAWANA PRINCE (조교수/소프트웨어융합대학 소프트웨어학과)			
	Office Room Number	Sanhak Building, Office 822	Office phone Number	e-mail	
	Office hours	Appointment via email	Homepage address	https://sites.google.com/view/princehamandawana/home	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number	e-mail	

1. Introduction

This subject will be both theoretical and practical(programming based), analyzing given computing problems, and developing the ability to design and implement efficient computer algorithms.

(1) Students will learn how to analyze algorithms that solve a problem. We will also understand the definition of asymptotic analysis accurately through simple representative algorithms, and learn and practice how to calculate it.

(2) Basic principles learned in discrete mathematics such as mathematical induction will be used. We will learn how to accurately understand the meaning of time complexity and analyze it theoretically.

(3) Students will further learn basic techniques (divide and conquer, dynamic programming, and greedy methods) that can be applied to solve algorithmic problems, and learn the characteristics of each technique through several example problems.

(4) Furthermore, students will learn the graph-based algorithmic problems of Minimum Spanning Tree and Maximum Flow, and learn algorithms to solve them.

(5) Lastly, students will learn the theoretical, practical, and polynomial time reduction of P, NP, and NP-complete problems covered in computational complexity theory.

2. Course Objectives

3. Class types and activities

The class type will be mostly lecture based with visual cues.
* Questioning is allowed in between the lecture period both from the instructor and the students.

After class assignments will also be given to students as form of continuous assessment and tracking student understanding of the concepts.
      *Assignments consist of exercise problems on algorithm efficiency analysis, algorithm designs, and algorithm correctness. Students are supposed to invest considerable amount of time to understand course material and to solve assignment problems.
      * The assignments are going to be individual theory-based and programming-based.

4. Teaching Method

☑ lecture	☑ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

Prerequisite knowledge: computer programming, discrete mathematics, data structures

Tools: C language, ability to read textbook written in English.

기초지식: 컴퓨터 프로그래밍, 이산수학, 자료구조

도구능력: C 언어, 영문 교재를 읽고 이해할 수 있는 능력

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	If you miss 8 classes you get an automatic F grade.
midterm exam	1	25	
final exam	1	30	
quiz	8	10	5 minutes online based short quizzes will be given at any random class time. So carry a suitable electronic gadget in every class.
presentation			
discussion			
homework	8	25	Both theory and programming based assignments.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Introduction to Algorithms, third edition	ThomasH.Cormen,CharlesE.Leiserson,Ronald L.RivestandCliffordStein	The MIT press	2009
Sub	Introduction to the Design and Analysis of Algorithms, 3rd Edition, Anomy Levitin	Richard Neapolitan	Jones & Bartlett	2015

10. Class system and Class shedule

1. We will kick start the course with basic concepts of algorithms, mathematical induction, sorting algorithms, and asymptotic analysis.
2. Next we proceed to algorithm design techniques such as divide-and-conquer, greedy approach, dynamic programming, network flow, backtracking and string pattern matching.
3. We finish the course with NP-hard problems. Students will learn that there are problems that do not have efficient algorithms, and how to deal with such problems.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction: Algorithm definitions and performance Analysis -Time Complexity and Space Complexity	E	HAMANDAWANA PRINCE	이론강의	과제	
2	Solving Problems with Divide-and-Conquer algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
3	Solving Problems with Divide-and-Conquer algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
4	Solving Problems with Dynamic Programming algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
5	Solving Problems with Dynamic Programming algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
6	Solving Problems with Greedy Algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
7	Solving Problems with Greedy Algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
8	Midterm Exam	E	HAMANDAWANA PRINCE		시험	
9	Solving Problems with Backtracking Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
10	Solving Problems with Backtracking Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
11	Solving Problems with Branch-and-Bound Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
12	Solving Problems with Branch-and-Bound Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
13	Lower Bounds of Sorting Problem by Comparison or Distribution	E	HAMANDAWANA PRINCE	이론강의	과제	
14	Intractable Problems/NP-hard Problems	E	HAMANDAWANA PRINCE	이론강의	과제	

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
15	Intractable Problems/NP-hard Problems	E	HAMANDAWAN A PRINCE	이론강의	과제	
16	Final Exam	E	HAMANDAWAN A PRINCE		시험	

11. Other items of notification

Algorithms

Course Name	Course type (credit/hours)	전필(3/3)	Course code	F061
	Target students Division/major/grade	소프트웨어학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(팔409) 수C(팔409)(팔409)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	Data structure		
	Related basic courses	Discrete mathematics		
	Recommanded concurrent courses			
	Related advanced courses	Advanced algorithms, advanced data structures		

Instructor	Name (title/division)	HAMANDAWANA PRINCE (조교수/소프트웨어융합대학 소프트웨어학과)			
	Office Room Number	Sanhak Building, Office 822	Office phone Number		e-mail
	Office hours	Appointment via email	Homepage address	https://sites.google.com/view/princehamandawana/home	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This subject will be both theoretical and practical(programming based), analyzing given computing problems, and developing the ability to design and implement efficient computer algorithms.

(1) Students will learn how to analyze algorithms that solve a problem. We will also understand the definition of asymptotic analysis accurately through simple representative algorithms, and learn and practice how to calculate it.

(2) Basic principles learned in discrete mathematics such as mathematical induction will be used. We will learn how to accurately understand the meaning of time complexity and analyze it theoretically.

(3) Students will further learn basic techniques (divide and conquer, dynamic programming, and greedy methods) that can be applied to solve algorithmic problems, and learn the characteristics of each technique through several example problems.

(4) Furthermore, students will learn the graph-based algorithmic problems of Minimum Spanning Tree and Maximum Flow, and learn algorithms to solve them.

(5) Lastly, students will learn the theoretical, practical, and polynomial time reduction of P, NP, and NP-complete problems covered in computational complexity theory.

2. Course Objectives

3. Class types and activities

The class type will be mostly lecture based with visual cues.
* Questioning is allowed in between the lecture period both from the instructor and the students.

After class assignments will also be given to students as form of continuous assessment and tracking student understanding of the concepts.
       *Assignments consist of exercise problems on algorithm efficiency analysis, algorithm designs, and algorithm correctness. Students are supposed to invest considerable amount of time to understand course material and to solve assignment problems.
       * The assignments are going to be individual theory-based and programming-based.

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☑	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

Prerequisite knowledge: computer programming, discrete mathematics, data structures

Tools: C language, ability to read textbook written in English.

기초지식: 컴퓨터 프로그래밍, 이산수학, 자료구조

도구능력: C 언어, 영문 교재를 읽고 이해할 수 있는 능력

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	If you miss 8 classes you get an automatic F grade.
midterm exam	1	25	
final exam	1	30	
quiz	8	10	5 minutes online based short quizzes will be given at any random class time. So carry a suitable electronic gadget in every class.
presentation			
discussion			
homework	8	25	Both theory and programming based assignments.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Introduction to Algorithms, third edition	ThomasH.Cormen,CharlesE.Leiserson,Ronald L.RivestandCliffordStein	The MIT press	2009
Sub	Introduction to the Design and Analysis of Algorithms, 3rd Edition, Anomy Levitin	Richard Neapolitan	Jones & Bartlett	2015

10. Class system and Class shedule

1. We will kick start the course with basic concepts of algorithms, mathematical induction, sorting algorithms, and asymptotic analysis.
2. Next we proceed to algorithm design techniques such as divide-and-conquer, greedy approach, dynamic programming, network flow, backtracking and string pattern matching.
3. We finish the course with NP-hard problems. Students will learn that there are problems that do not have efficient algorithms, and how to deal with such problems.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction: Algorithm definitions and performance Analysis -Time Complexity and Space Complexity	E	HAMANDAWANA PRINCE	이론강의	과제	
2	Solving Problems with Divide-and-Conquer algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
3	Solving Problems with Divide-and-Conquer algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
4	Solving Problems with Dynamic Programming algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
5	Solving Problems with Dynamic Programming algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
6	Solving Problems with Greedy Algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
7	Solving Problems with Greedy Algorithm design	E	HAMANDAWANA PRINCE	이론강의	과제	
8	Midterm Exam	E	HAMANDAWANA PRINCE		시험	
9	Solving Problems with Backtracking Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
10	Solving Problems with Backtracking Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
11	Solving Problems with Branch-and-Bound Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
12	Solving Problems with Branch-and-Bound Algorithm Design	E	HAMANDAWANA PRINCE	이론강의	과제	
13	Lower Bounds of Sorting Problem by Comparison or Distribution	E	HAMANDAWANA PRINCE	이론강의	과제	
14	Intractable Problems/NP-hard Problems	E	HAMANDAWANA PRINCE	이론강의	과제	

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
15	Intractable Problems/NP-hard Problems	E	HAMANDAWAN A PRINCE	이론강의	과제	
16	Final Exam	E	HAMANDAWAN A PRINCE		시험	

11. Other items of notification

Artificial Intelligence

Course Name	Course type (credit/hours)	전선(3/3)	Course code	F049
	Target students Division/major/grade	소프트웨어학과/4학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(팔325) 목A(팔325)(팔325)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	자료구조		
	Related basic courses	인공지능 입문		
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	송수환 (조교수/소프트웨어학과)			
	Office Room Number	팔달관 1004	Office phone Number		e-mail
	Office hours	화요일 15:00 ~ 16:00	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course will explore the principles and practical use of deep neural networks. Specifically, we will delve into techniques related to deep neural networks, including fully connected networks, convolutional neural networks, recurrent neural networks, and deep reinforcement learning. Moreover, we will examine various methods essential for effectively training these models, such as initialization, normalization, gradient descent, pre-training, and regularization. Additionally, we will emphasize the application of these techniques in areas such as computer vision and robotics, providing real-world context throughout the course.

2. Course Objectives

3. Class types and activities

We plan to conduct theory lectures and allocate dedicated time for programming exercises using the PyTorch tool. Additionally, we intend to assign homework and term projects that involve designing new Deep Network models to address real-world problems.

4. Teaching Method

[V] lecture

[ ] discussion and debate

[V] team project(presentation and case studies)

[V] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[ ] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

- Proficiency in Python, some high-level familiarity with C/C++
- Small knowledge about College Calculus, Linear Algebra, and Data Structure

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		25	
final exam		25	
quiz			
presentation		20	Term Project
discussion			
homework		20	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Deep Learning (https://www.deeplearningbook.org/)	I. Goodfellow, Y. Bengio, and A. Courville	MIT Press	2016
Ref.(web)	CS231n: Deep Learning for Computer Vision (http://cs231n.stanford.edu/)	Fei-Fei Li, Yunzhu Li, and Ruohan Gao	Stanford	2023

10. Class system and Class shedule

본 교과목은 이론 강의를 진행하고, 이론에서 학습한 내용을 직접 구현해보는 프로그래밍 실습을 진행할 계획이다. 그리고 실생활의 문제를 해결하기 위해 새로운 심층 신경망 모델을 설계하는 과제와 학기 프로젝트를 부여할 계획이다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	E	송수환	강의/실습		
2	Linear Classifier	E	송수환	강의/실습		
3	Regularization & Optimization	E	송수환	강의/실습		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Neural Networks	E	송수환	강의/실습	HW1	
5	Backpropagation	E	송수환	강의/실습		
6	Convolutional Networks	E	송수환	강의/실습		
7	Training Neural Networks	E	송수환	강의/실습		
8	Midterm Exam	E	송수환	시험		
9	CNN Architectures	E	송수환	강의/실습	HW2	
10	Advanced CNN	E	송수환	강의/실습		
11	Recurrent Neural Networks	E	송수환	강의/실습		
12	Vision Applications	E	송수환	강의/실습	HW3	
13	Deep Reinforcement Learning I	E	송수환	강의/실습		
14	Deep Reinforcement Learning II	E	송수환	강의/실습		
15	Project Presentation	E	송수환	발표		
16	Final Exam	E	송수환	시험		

11. Other items of notification

Basic Korean1

Course Name	Course type (credit/hours)	교선(3/3)		Course code	X042
	Target students Division/major/grade	Exchange students/1학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(연암508) 목D(연암508)(연암508)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	None			
	Related basic courses	None			
	Recommanded concurrent courses	Basic Korean 2			
	Related advanced courses	Korean course 1			

Instructor	Name (title/division)	정미혜 (Mihye JEONG)			
	Office Room Number		Office phone Number		e-mail
	Office hours	Before or after class hours	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course is designed for foreign students who have no or little background of Korean. This sixteen-week course intends to help students master Hangeul, Korean alphabets and accomplish beginning level of proficiency in Korean language with the topics occurring in a daily conversation. Students are also expected to raise their understanding of Korean culture expanding their language experiences in the class.

2. Course Objectives

3. Class types and activities

1. Lecture type: Mixed with lecture, asking and answering, pair work and team activities.
2. Class procedure: Dictation-Lecture-Speaking and Listening Practice-Individual or team presentation
3. Class Material: Everyday lesson will be delivered with PPT and worksheets from the main textbook.
4. Self Practice: After each lesson, students will review the lesson completing the worksheets which will be given to the students as homework assignment.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [V] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

None

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	32	15	Attendance. 1 point reduction whenever 1 day absent. Students must attend 1/4 of total class hours to receive an official grade.
midterm exam	1	25	Written test
final exam	1	30	Oral test(Interview type)
quiz	3	15	Dictation and writing
presentation			
discussion			
homework	8-10	10	Worksheet after finishing each lesson
etc		5	Class participation
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Basic Korean for exchange students	박수연 외	한글파크	2021

10. Class system and Class shedule

-1st Session(1~5 week): Mastering Hangeul, Korean alphabets focusing on connecting the sound of each letter and its form. Reading and writing simple words and expressions.

-2nd Session(7~end): Learning and improving basic communication skills with daily topics focusing on listening, speaking, reading, and writing.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Orientation	E	정미혜	Lecture		
2	Lessonn 1. Hangeul 3Hangeul 1	E	정미혜			
3	Lessonn 2. Hangeul 3Hangeul 2	E	정미혜			
4	Lessonn 3. Hangeul 3Hangeul 3	E	정미혜			
5	Review and summery of engeul	E	정미혜			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	Lesson 4. Self-Introduction	E	정미혜			
7	Lesson 5. Telling the place you are going to.elf-Introduction	E	정미혜			
8	Mid-term exam	E	정미혜			
9	Lesson 7. Ordering foodch is it?	E	정미혜			
10	Lesson 8. Telling things you likeOrdering food	E	정미혜			
11	Lesson 9. Describing feeling and emotions	E	정미혜			
12	Lesson 10. Directions	E	정미혜			
13	Lesson 11. Negationsng for a direction.	E	정미혜			
14	Lesson 12. Daily activitiesNegations	E	정미혜			
15	Lesson 13. Time and Dates	E	정미혜			
16	Final Exam	E	정미혜			

11. Other items of notification

Basic Korean1

Course Name	Course type (credit/hours)	교선(3/3)	Course code	X043
	Target students Division/major/grade	Exchange students /1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월F(성201) 목F(성201)(성201)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	None		
	Related basic courses	None		
	Recommanded concurrent courses	Basic Korean 2		
	Related advanced courses	Korean course 1		

Instructor	Name (title/division)	정미혜, Mihye Jeong				
	Office Room Number		Office phone Number		e-mail	
	Office hours	Before or after class hours	Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course is designed for foreign students who have no or little background of Korean. This sixteen-week course intends to help students master Hangeul, Korean alphabets and accomplish beginning level of proficiency in Korean language with the topics occurring in a daily conversation. Students are also expected to raise their understanding of Korean culture expanding their language experiences in the class.

2. Course Objectives

3. Class types and activities

1. Lecture type: Mixed with lecture, asking and answering, pair work and team activities.
2. Class procedure: Dictation-Lecture-Speaking and Listening Practice-Individual or team presentation
3. Class Material: Everyday lesson will be delivered with PPT and worksheets from the main textbook.
4. Self Practice: After each lesson, students will review the lesson completing the worksheets which will be given to the students as homework assignment.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [V] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	32	15	Attendance. 1 point reduction whenever 1 day absent. Students must attend 1/4 of total class hours to receive an official grade.
midterm exam	1	25	Written test
final exam	1	30	Oral test
quiz	3	15	Dictation and writing
presentation			
discussion			
homework	8~20	10	Submitting worksheet after each lesson
etc		5	Class participation
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Basic Korean for exchange students	박수연 외	한글파크	2021

10. Class system and Class shedule

-1st Session(1~5 week): Mastering Hangeul, Korean alphabets focusing on connecting the sound of each letter and its form. Reading and writing simple words and expressions.

-2nd Session(7~end): Learning and improving basic communication skills with daily topics focusing on listening, speaking, reading, and writing.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Orientation	E	정미혜			
2	Lessonn 1. Hangeul 1	E	정미혜			
3	Lessonn 2. Hangeul 2	E	정미혜			
4	Lessonn 3. Hangeul 3	E	정미혜			
5	Review and practice Hangeul	E	정미혜			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	Lessonn 4. Self-Introductioneul 3	E	정미혜			
7	Lessonn 5. Where are you going?Hangeul 3	E	정미혜			
8	Mid-term exam	E	정미혜			
9	Lessonn 7. Ordering food	E	정미혜			
10	Lessonn 8. Telling likes and preferance	E	정미혜			
11	Lessonn 9. Describing feelings	E	정미혜			
12	Lessonn 10. Asking for a directionangeul 3	E	정미혜			
13	Lessonn 11. Telling dislikes angeul 3	E	정미혜			
14	Lessonn 12. Describing daily activitiesHangeul 3	E	정미혜			
15	Lessonn 13. Telling something youd like to do	E	정미혜			
16	Final Test	E	정미혜			

11. Other items of notification

Basic Korean1

Course Name	Course type (credit/hours)	교선(3/3)	Course code	X044
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(성234) 목D(성234)(성234)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	None		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	김승희 (강사/대학 다산학부대학)		
	Office Room Number		Office phone Number	e-mail
	Office hours	before or after class hours by appointment	Homepage address	
Teaching Assistant	Name (title/division)			
	Office Room Number		Office phone Number	e-mail

1. Introduction

This course is designed for foreign students who have no or little background of learning Korean. This sixteen-week course intends to help students make rapid progress and accomplish beginning level proficiency of Korean language including Hangeul. Students are also expected to raise their understanding of Korean culture expanding their language experiences in the class.

2. Course Objectives

1. Students will be able to recognize basic words and expressions.
2. Students will be able to express their simple ideas using basic level of vocabulary and grammar in speaking and writing.
3. Students will be able to exchange information about familiar topics relating to themselves and their interests .
4. Students will be able to make discourse and communicate with classmates through class activities.
5. Students will be able to understand not only Korean culture but also other nations culture through social language experience during class.
6. By the end of the course, students are expected to be able to carry out basic level of communication skills and to broaden their understanding about Korean culture.

3. Class types and activities

1. Lectures are conducted through auxiliary materials such as textbooks, PPTs, and videos.
2. Practice Korean using handouts.
3. Promote opportunities to use Korean through partner activities and group activities.
4. Reinforcement of learning contents through 3-4 review activities.
5. Formation evaluation and self-evaluation through quizzes during class.

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [V] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

None

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	32	15	attendance both on the Zoom and off-line
midterm exam	1	25	mid-term exam
final exam	1	25	final exam
quiz	2	10	quiz
presentation			
discussion			
homework	5~10	20	5~8 times tasks
etc	수시	5	Class participation in live sessions and off-line sessions.
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Ref.(web)	세종누리학당 http://www.sejonghakdang.org/opencourse/lecture/list.do			
Main	교환학생을위한기초한국어	박수연 외	한글파크	2018

10. Class system and Class shedule

-1st part of the course : Mastering Hangeul, Korean alphabets focusing on connecting the sound of each letter and its form.

                         Reading and writing simple words and expressions.

-2nd Part of the course : Learning and improving basic communication skills focusing on listening, speaking, reading, and writing.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Orientation, Lesson 1. Hangeul-01	E	김승희			
2	Lesson 1. Hangeul-02	E	김승희			Main textbook
3	Lesson 2.Hangeul-03	E	김승희			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Lesson 2.Hangeul-04	E	김승희			
5	Review Hangeul+Greeting	E	김승희			
6	Lesson 3. 소개	E	김승희			
7	Lesson 3. 소개	E	김승희		Quiz-1(Written)	
8	Lesson 4. 물건	E	김승희			
9	Lesson 4. 물건	E	김승희			
10	Mid-term exam	E	김승희		Written test	
11	Lesson 5. 음식과 주문	E	김승희			
12	Lesson 5. 음식과 주문	E	김승희			
13	Lesson 6. 일상생활	E	김승희		Quiz-2(Written)	
14	Speech exercise & Review	E	김승희			
15	Speech	E	김승희		Speaking test	
16	Final Exam	E	김승희		Written test	

11. Other items of notification

Basic Korean1

Course Name	Course type (credit/hours)	교선(3/3)	Course code	X045
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월F(성234) 목F(성234)(성234)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	None		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	김승희 (강사/대학 다산학부대학)			
	Office Room Number		Office phone Number		e-mail
	Office hours	before or after class hours by appointment	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course is designed for foreign students who have no or little background of learning Korean. This sixteen-week course intends to help students make rapid progress and accomplish beginning level proficiency of Korean language including Hangeul. Students are also expected to raise their understanding of Korean culture expanding their language experiences in the class.

2. Course Objectives

1. Students will be able to recognize basic words and expressions.
2. Students will be able to express their simple ideas using basic level of vocabulary and grammar in speaking and writing.
3. Students will be able to exchange information about familiar topics relating to themselves and their interests .
4. Students will be able to make discourse and communicate with classmates through class activities.
5. Students will be able to understand not only Korean culture but also other nations culture through social language experience during class.
6. By the end of the course, students are expected to be able to carry out basic level of communication skills and to broaden their understanding about Korean culture.

3. Class types and activities

1. Lectures are conducted through auxiliary materials such as textbooks, PPTs, and videos.
2. Practice Korean using handouts.
3. Promote opportunities to use Korean through partner activities and group activities.
4. Reinforcement of learning contents through 3-4 review activities.
5. Formation evaluation and self-evaluation through quizzes during class.

4. Teaching Method

[V] lecture

[V] discussion and debate

[ ] team project(presentation and case studies)

[V] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[ ] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

None

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	32	15	attendance both on the Zoom and off-line
midterm exam	1	25	mid-term exam
final exam	1	25	final exam
quiz	2	10	quiz
presentation			
discussion			
homework	5~10	20	5~8 times tasks
etc	수시	5	Class participation in live sessions and off-line sessions.
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Ref.(web)	세종누리학당 http://www.sejonghakdang.org/opencourse/lecture/list.do			
Main	교환학생을위한기초한국어	박수연 외	한글파크	2018

10. Class system and Class shedule

-1st part of the course : Mastering Hangeul, Korean alphabets focusing on connecting the sound of each letter and its form.

Reading and writing simple words and expressions.

-2nd Part of the course : Learning and improving basic communication skills focusing on listening, speaking, reading, and writing.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Orientation, Lesson 1. Hangeul-01	E	김승희			
2	Lesson 1. Hangeul-02	E	김승희			Main textbook
3	Lesson 2.Hangeul-03	E	김승희			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Lesson 2.Hangeul-04	E	김승희			
5	Review Hangeul+Greeting	E	김승희			
6	Lesson 3. 소개	E	김승희			
7	Lesson 3. 소개	E	김승희		Quiz-1(Written)	
8	Lesson 4. 물건	E	김승희			
9	Lesson 4. 물건	E	김승희			
10	Mid-term exam	E	김승희		Written test	
11	Lesson 5. 음식과 주문	E	김승희			
12	Lesson 5. 음식과 주문	E	김승희			
13	Lesson 6. 일상생활	E	김승희		Quiz-2(Written)	
14	Speech exercise & Review	E	김승희			
15	Speech	E	김승희		Speaking test	
16	Final Exam	E	김승희		Written test	

11. Other items of notification

Basic Korean2

Course Name	Course type (credit/hours)	교선(3/3)	Course code	X047
	Target students Division/major/grade	/	Openning semester	2023 2ND SEMESTER
	Class time and classroom	수F(성201) 금F(성201)(성201)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	한국어1		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	김소현 (강사/대학 다산학부대학)			
	Office Room Number		Office phone Number		e-mail
	Office hours	수업 전, 후	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

2. Course Objectives

1. 한국어의 주요 문법인 형용사, 시제, 부정문, 최상급 등을 체계적으로 연습하여 한국어능력을 향상시킨다.
2. 한국 음식, 여행, 물건 사기 등 일상 생활의 의사소통에 관한 기본 어휘를 학습한다.
3. ''듣기''와 ''읽기'' 훈련을 통하여 한국어를 이해 영역과 ''말하기''와 ''쓰기'' 훈련을 통하여 한국어의 표현 능력을 향상시킨다.
4. 일상 생활에서 일어날 수 있는 한국 문화를 학습의 주제와 관련하여 이해한다.

3. Class types and activities

4. Teaching Method

☑	lecture	☐	discussion and debate
☐	team project(presentation and case studies)	☑	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

한국어1을 수강했거나, 한글의 자음과 모음을 습득하고 기초적인 의사소통이 가능한 한국어 초급자를 위한 수업이다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20%	
midterm exam	1회	30%	
final exam	1회	30%	
quiz			
presentation	1회	20%	
discussion			
homework			
etc			
study hours	매일 30분씩 주당 3시간 이상		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	New Easy Korean 1B	New Easy Academy	한글파크	2021

10. Class system and Class shedule

수업은 그날 배운 내용은 모두 습득하도록 하고, 과제물을 통하여 충분히 연습한다. 그리고 다음 시간에 반드시 복습을 통하여 확인한다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	수업소개	K	김소현	대면		
2	기초 문법 복습	K	김소현	대면		
3	1과 충무로역에 내려서 3호선으로 갈아타요.	K	김소현	대면		
4	2과 스키를 탈 수 있어요. 하지만 잘 못 타요.	K	김소현	대면		
5	3과 비싸서 하나만 샀어요.	K	김소현	대면		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	4과 혼자 텔레비전 보고 있어요.	K	김소현	대면		
7	복습	K	김소현	대면		
8	중간고사	K	김소현	대면		
9	5과 매우니까 냉면 시키지 말고 다른 거 시키세요.	K	김소현	대면		
10	6과 12시나 1시쯤 만날까요?	K	김소현	대면		
11	발표 1	K	김소현	대면		
12	발표 2	K	김소현	대면		
13	7과 제가 내일 가져다줄게요	K	김소현	대면		
14	8과 어머니 생신 선물을 사셨어요?	K	김소현	대면		
15	복습	K	김소현	대면		
16	기말고사	K	김소현	대면		

11. Other items of notification

주별 강의 내용 및 일정 등은 다소 변동이 있을 수 있습니다.

Basic Korean2

Course Name	Course type (credit/hours)	교선(3/3)	Course code	X048
	Target students Division/major/grade	/	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화D(성235) 목C(성235)(성235)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	한국어1		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	오현주 (강사/대학 다산학부대학)				
	Office Room Number		Office phone Number		e-mail	
	Office hours	수업 전, 후		Homepage address		
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

2. Course Objectives

1. 한국어의 주요 문법인 형용사, 시제, 부정문, 최상급 등을 체계적으로 연습하여 한국어능력을 향상시킨다.
2. 한국 음식, 여행, 물건 사기 등 일상 생활의 의사소통에 관한 기본 어휘를 학습한다.
3. ''듣기''와 ''읽기'' 훈련을 통하여 한국어를 이해 영역과 ''말하기''와 ''쓰기'' 훈련을 통하여 한국어의 표현 능력을 향상시킨다.
4. 일상 생활에서 일어날 수 있는 한국 문화를 학습의 주제와 관련하여 이해한다.

3. Class types and activities

4. Teaching Method

☑	lecture	☐	discussion and debate
☐	team project(presentation and case studies)	☑	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

한국어1을 수강했거나, 한글의 자음과 모음을 습득하고 기초적인 의사소통이 가능한 한국어 초급자를 위한 수업이다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20%	
midterm exam	1회	30%	
final exam	1회	30%	
quiz			
presentation	1회	20%	
discussion			
homework			
etc			
study hours	매일 30분씩 주당 3시간 이상		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	New Easy Korean 1B	New Easy Academy	한글파크	2021

10. Class system and Class shedule

수업은 그날 배운 내용은 모두 습득하도록 하고, 과제물을 통하여 충분히 연습한다. 그리고 다음 시간에 반드시 복습을 통하여 확인한다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	수업소개	K	오현주	대면		
2	기초 문법 복습	K	오현주	대면		
3	1과 충무로역에 내려서 3호선으로 갈아타요.	K	오현주	대면		
4	2과 스키를 탈 수 있어요. 하지만 잘 못 타요.	K	오현주	대면		
5	3과 비싸서 하나만 샀어요.	K	오현주	대면		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	4과 혼자 텔레비전 보고 있어요.	K	오현주	대면		
7	복습	K	오현주	대면		
8	중간고사	K	오현주	대면		
9	5과 매우니까 냉면 시키지 말고 다른 거 시키세요.	K	오현주	대면		
10	6과 12시나 1시쯤 만날까요?	K	오현주	대면		
11	발표 1	K	오현주	대면		
12	발표 2	K	오현주	대면		
13	7과 제가 내일 가져다줄게요	K	오현주	대면		
14	8과 어머니 생신 선물을 사셨어요?	K	오현주	대면		
15	복습	K	오현주	대면		
16	기말고사	K	오현주	대면		

11. Other items of notification

주별 강의 내용 및 일정 등은 다소 변동이 있을 수 있습니다.

Biochemical Engineering

Course Name	Course type (credit/hours)	전선(3/3)	Course code	D057
	Target students Division/major/grade	응용화학생명공학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화C(혜107) 금C(혜107)(혜107)	English Grade	A(100%English)

Reference to this course	Prerequisite courses				
	Related basic courses	Calculus, Biology1&2, Chemistry 1&2, Biochemistry, 화공생명공학양론, 화학생명공학단위조작			
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)			박현지 (조교수/대학원 분자과학기술학과)		
	Office Room Number	혜강관 423호	Office phone Number	031-219-2504	e-mail	
	Office hours		Homepage address		https://ctbi.ajou.ac.kr	

Teaching Assistant	Name (title/division)					
	Office Room Number	혜강관 408호	Office phone Number		e-mail	hyukjun3874@ajou.ac.kr

1. Introduction

Biochemical engineering is a highly interdisciplinary field combining biotechnology and chemical engineering. It involves the study of how basic raw materials are converted to the finished products by means of rigorous processes. This course provides you strong training in various engineering concepts like process engineering, biochemistry, material balance, thermodynamics, reaction kinetics to name a few. As the name suggests, biochemical engineering blends elements of both biotechnology and chemicals and deals with natural raw materials of life processes used for manufacturing companies in industries ranging from fertilizers to pharmaceuticals.

2. Course Objectives

생물 제품의 산업화 과정에서 일어나는 공학적 문제를 이해한다.
생명공학의 원리를 활용하여 산업에 응용할 수 있는 능력을 배양한다.
- 세포 화학, 세포 대사, DNA 재조합 등 세포를 조작해 원하는 세포 부산물 원료를 만들어내는 방법을 배운다.
- Bioreactor 를 이용한 mass transfer 에 관해 배운다.
- 생물학적 제제의 정제와 관련된 주요 문제 및 기술에 대한 기본적 이해를 갖는다.
- 발효, 재조합 제품 , 세포 치료제 생산과 관련된 기본적 이해 능력을 갖는다.

3. Class types and activities

1. Lectures: Each chapter will be introduced through structured lectures. These sessions will not only include theoretical instruction but also real-world case studies to provide a practical perspective.
2. Assignments: After each chapter, students will receive regular assignments to reinforce their learning and deepen their understanding of bioprocess engineering principles and practices.
3. Examinations: Comprehensive midterm and final exams will be conducted to evaluate the knowledge and understanding acquired throughout the course. These examinations will cover all chapters and will assess both the students theoretical knowledge and practical skills.
4. Guest Lectures: Occasional guest lectures from professionals in the field will be organized to provide insights into real-world bioprocessing scenarios.
5. Self-Study and Reading: In addition to scheduled class time, students will be expected to dedicate time to self-study and reading. This will improve their understanding of the subject and prepare them for class discussions, assignments, and exams. Recommended reading materials will be provided for each chapter.

4. Teaching Method

[V] lecture	[ ] discussion and debate
[ ] team project(presentation and case studies)	[ ] experiments(role-playing,etc)
[ ] designing and production	[ ] on-site learning(on-site training)
[ ] others	

5. Support Systems in Use

[V] e-class	[ ] automatic recording system	[ ] web-based assignment
[ ] cyber lecture	[ ] blended learning(combination of online and offline teaching)	
[ ] class behavior analyazing system	[ ] others	

6. Teaching Tools

[V] PBL(Problem Based Learning)	[V] CBL(Case Based Learning)
[ ] TBL(Team Based Learning)	[ ] others

7. Knowledge and ability required for taking this course

1. A solid understanding of basic biology, including knowledge of cellular structure and function, genetic principles, and basic biochemistry.
2. Understanding of fundamental chemistry concepts, including stoichiometry, chemical kinetics, and thermodynamics, which are essential in understanding biological reactions and processes.
3. Proficiency in basic mathematics, particularly in algebra and calculus, which will be necessary for stoichiometric calculations and understanding certain engineering principles.
4. Ability to think critically and solve complex problems, which will be necessary for designing and troubleshooting bioprocesses

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			10회 이상 결석 시 F
midterm exam	1	40	
final exam	1	40	
quiz			
presentation			
discussion			
homework	8	20	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Bioprocess Engineering: Basic Concepts, 3rd Edition	Michael L. Shuler, Fikret Kargi, Matthew DeLisa	Pearson	2017
Sub	Current Topics in Biochemical Engineering	Naofumi Shiomi	IntechOpen	2019

10. Class system and Class shedule

1. Life science 기초지식에 공학적 원리를 적용하기 위하여 생화학, 미생물학, 세포학, 분자생물학 지식을 공학적/수학적 관점으로 해석.
2. 전 단계에서 습득한 지식을 활용하여 생물공정을 이해할 수 있는 engineering principles를 배우고, bioreactor operation의 기본개념과 scale-up 및 공정제어 원리를 습득하고, 여기에 bioproduct의 분리정제의 이해를 통하여 궁극적으로 생물공정을 설계할 수 있는 능력을 배양.
3. 생물공정을 위한 공학적 원리를 발전시켜 복합 학제적으로 활용할 수 있는 능력을 배양하고, 실제 산업화 사례들에 적용하는 능력을 배양

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Orientation, Chapter 1. What Is a Bioprocess Engineer & Chapter 2: An Overview of Biological Basics	E	박현지	Lecture		
2	Chapter 3: Enzymes-1	E	박현지	Lecture		
3	Chapter 3: Enzymes-2	E	박현지	Lecture	Assignment	
4	Chapter 4: How Cells Work & Chapter 5: Major Metabolic Pathways	E	박현지	Lecture	Assignment	
5	Chapter 6: How Cells Grow-1	E	박현지			
6	Chapter 6: How Cells Grow-2 &Chapter 7: Stoichiometry of Microbial Growth and Product Formation & Chapter 8: How Cellular Information Is Altered-1	E	박현지	Lecture	Assignment	
7	Chapter 7: Stoichiometry of Microbial Growth and Product Formation & Chapter 8: How Cellular Information Is Altered-2	E	박현지	Lecture	Assignment	
8	Midterm exam	E	박현지		Midterm exam	
9	Chapter 8: How Cellular Information Is Altered	E	박현지	Lecture	Assignment	
10	Chapter 9: Operating Considerations for Bioreactors for Suspension and Immobilized Cultures-1	E	박현지	Lecture		
11	Chapter 9: Operating Considerations for Bioreactors for Suspension and Immobilized Cultures-2	E	박현지	Lecture	Assignment	
12	Chapter 10: Selection, Scale-Up, Operation, and Control of Bioreactors-1	E	박현지	Lecture		
13	Chapter 10: Selection, Scale-Up, Operation, and Control of Bioreactors-2	E	박현지	Lecture	Assignment	
14	Chapter 11: Recovery and Purification of Products-1	E	박현지	Lecture		
15	Chapter 11: Recovery and Purification of Products-2	E	박현지	Lecture	Assignment	
16	□Final exam	E	박현지		Final exam	

11. Other items of notification

Building Equipment

Course Name	Course type (credit/hours)	전필(3/3)	Course code	E070
	Target students Division/major/grade	건축학부 건축학전공/건축공학전공/4학년, 5학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화D(팔108) 목C(팔108)(팔108)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	건축환경시스템/건축환경학
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		안형욱 (조교수/공과대학 건축학과)		
	Office Room Number	산학협력원 718호	Office phone Number	1656	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course continues the exploration of the architectural environments by extending the design considerations to include HVAC, plumbing, electrical, and other utility systems. The course addresses mechanical and electrical equipments selection and design by introducing basic principles of the systems and analyzing the case studies.

2. Course Objectives

건축물의 용도,규모 등에 따른 적정 건축설비 방식을 고찰하고, 건축설비 기기 및 장치의 원리 등 건축설비를 이용한 쾌적한 건축환경 조성에 필요한 전문적인 지식을 학습한다.

<교과목 학습성과>
-기계, 전기, 통신, 소방 등 건축설비 시스템의 범위 및 종류, 기본원리와 적용방법을 이해한다.
-건물에 적용된 건축설비시스템을 이해하고 분석할 수 있다.
-주어진 건물에 대해 기본적인 건축설비 계획을 할 수 있다.

3. Class types and activities

4. Teaching Method

☑ lecture	☐ discussion and debate
☑ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☑ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		30	
final exam		30	
quiz			
presentation			
discussion			
homework		30	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Mechanical and electrical systems in buildings (4th ed.)	R.Janis and W.Tao	Prentice Hall	2005
Ref.	Meahanical and electrical Equipment for Buildings(11th ed.)	W. T. Grondzik, A. G. Kwok, B. Stein, and J. S. Reynolds	Wiley	2009
Ref.	건축기계설비	연규문	예문사	2018
Main	Design of electrical services for buildings(4th ed.) – 학교 도서관에서 e-book 열람 가능	B.Rigby, F.Porges	Spon Press	2005
Main	HVAC Fundamentals – 학교 도서관에서 e-book 열람 가능	S.C. Sugarman	The Fairmont Press	2004
Sub	Building Services Engineering(5th ed.)– – 학교 도서관에서 e-book 열람 가능	D.V. Chadderton	Taylor & Francis	2007
Ref.	공기조화설비	김재수	문운당	2014

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	수업소개. 건축설비 개요 및 기초이론	E	안형욱	Lecture		
2	위생설비 개요	E	안형욱	Lecture		
3	급수, 급탕설비	E	안형욱	Lecture		
4	배수 통기설비, 전기설비 개요	E	안형욱	Lecture		
5	조명설비	E	안형욱	Lecture		
6	전원설비	E	안형욱	Lecture		
7	배선, 통신, 운송설비	E	안형욱	Lecture		
8	중간고사	E	안형욱	Exam		
9	HVAC 기초	E	안형욱	Lecture		
10	공조부하 개요 및 계산	E	안형욱	Lecture		
11	열원설비	E	안형욱	Lecture		
12	공기조화방식	E	안형욱	Lecture		
13	공기조화기기, 반송설비, 난방설비	E	안형욱	Lecture		
14	소방 방재설비	E	안형욱	Lecture		
15	신재생에너지설비, 제로에너지건축물	E	안형욱	Lecture		
16	기말고사	E	안형욱	Exam		

11. Other items of notification

Business Statistics and Data Analysis

Course Name	Course type (credit/hours)	교필(3/3)	Course code	I003
	Target students Division/major/grade	경영학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(연암104) 수C(연암104)(연암104)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	김진학 (경영학과)		
	Office Room Number		Office phone Number	e-mail
	Office hours		Homepage address	
Teaching Assistant	Name (title/division)			
	Office Room Number		Office phone Number	e-mail

1. Introduction

Statistical concepts employed in the solution of managerial problems are discussed. Topics include descriptive statistics, frequency distributions, laws of
probability, probability models, sampling distributions, statistical inference, regression and correlation analysis and introduction to multiple regression models and one-way analysis of variance.

2. Course Objectives

이 과목은 기업 경영 문제를 직접 해결하는 데 사용되는 기본적인 통계적 방법과 더욱 고급 분석 방법의 기반으로 사용되는 방법에 대한 소개이다. 이는 경영 전공 과정의 공통 지식 요구 사항 중 양적 방법 요구 사항을 충족시킵니다.

3. Class types and activities

The classes are structured with lectures, discussions, and exercises. The course topics are initially presented through lectures, supported by audiovisual materials when necessary, to enhance comprehension of the lecture content. In order to foster discovery-based learning, the traditional one-sided lecture format is minimized, and discussions are employed to extract the key concepts from the lectures. These discussions occur in both one-to-many formats between the professor and students, as well as in small-group settings among students. For topics involving calculations and computer usage, supplementary handouts are provided to aid students in understanding the content. Creating an environment where students feel comfortable asking questions and engaging in dialogue is one of the objectives, with the aim of maximizing their understanding of the course material. All course-related materials are distributed through Ajou Bb.

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [V] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

이 과목에 필요한 선수과목은 없다. 그러나 고등학교 수준의 대수와 미적분의 지식을 가정합니다. 또한 Microsoft Excel과 같은 스프레드시트 사용에 대한 기본 지식을 요구합니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1	30	
final exam	1	40	
quiz	15	30	
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Statistics for Management and Economics 11e	Gerald Keller	Cengage Learning	2018

10. Class system and Class shedule

통계적 분석의 핵심이 되는 가설 검정을 다루기 위해서는 그 근간이 되는 확률과 확률 분포에 대한 이해가 필수적이다. 따라서 이 과목의 전반부에는 이러한 이론적인 토대를 바련한다. 이를 바탕으로 이 과목의 후반부에서는 통계적 추론과 회귀분석 등 심도있게 다룬다.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to Statistics, Descriptive Statistics, Plots	E	김진학	Lecture		
2	Basics of Excel, Probability Theory	E	김진학	Lecture		
3	Probability Theory	E	김진학	Lecture		
4	Random Variables, Probability Models	E	김진학	Lecture		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Discrete and Continuous Distributions	E	김진학	Lecture		
6	Sampling Distributions, Simulation, Central Limit Theorem	E	김진학	Lecture		
7	Midterm Exam	E	김진학	Test		
8	Point and Interval Estimation	E	김진학	Lecture		
9	Statistical Inference: Single population	E	김진학	Lecture		
10	Statistical Inference: Two population, pairs samples, Chi-Square tests	E	김진학	Lecture		
11	Simple Regression and Correlation, Ordinary Least Squares, Sampling Variability	E	김진학	Lecture		
12	Multiple Regression	E	김진학	Lecture		
13	Multiple Regression Models, Dummy Variables, Analysis of Variance by Regression	E	김진학	Lecture		
14	Bueinss Ethics	E	김진학	Lecture		
15	Review	E	김진학	Lecture		
16	Final Exam	E	김진학	Test		

11. Other items of notification

Business Statistics and Data Analysis

Course Name	Course type (credit/hours)	교필(3/3)	Course code	I005
	Target students Division/major/grade	경영학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(연암104) 목D(연암104)(연암104)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	황재연 (강사/경영대학 경영학과)			
	Office Room Number		Office phone Number		e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This is an introductory course in statistics for undergraduate students in business and economics. The course is designed to let students get familiar with basic statistical concepts and methods. The main subject in the course is statistical inference theory, which requires knowledge of basic probability theory. Students will learn some elements of probability theory, random variables, probability distributions, point estimation, confidence intervals, and hypothesis testing. In addition, basic theories on the classical regression will be discussed in the later part of the course. Microsoft Excel will be used for data handling and calculating test statistics.

2. Course Objectives

3. Class types and activities

Lecture will be provided to understand basic concepts of statistics. Homeworks using Microsoft Excel can be done in groups of 3-5 srudents together.

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☑	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☑	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

1. Highschool level of mathematics
2. MIcrosoft Excel

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	
midterm exam		30	
final exam		50	
quiz			
presentation			
discussion			
homework		15	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Statistics for Management and Economics, 11th ed.	Gerald Keller	Cengage	2018
Ref.	켈러의 경영경제통계학	G. Keller지음, 이상규 옮김	한티에듀	2021

10. Class system and Class shedule

1. Basic concepts: Descritiptive statistics, inferential statistics, random experiment
2. Descriptive statistical techniques: graphical techniques and numerical techniques
3. Probability theory and proabability distributions
4. Sampling distributions
5. Inferentail statistics: estimations and testing hypothesis
6. Basic linear regression

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction: Random experiment, Microsoft Excel	K	황재연	lecture		
2	Descriptive Statistics: Graphical and numerical techniques, sampling methods	K	황재연	lecture		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Probability: Random experiment, probability model, axioms of probability, conditional probability, Stochastic independence, Bayes Law	K	황재연	lecture		
4	Random variable and Probability distributions: Discrete random variables and rpobability distributions	K	황재연	lecture		
5	Continuous random variables and probability distributions	K	황재연	lecture		
6	Sampling distributions of the mean, a proportion, and the difference between two means	K	황재연	lecture		
7	Sampling distributions and Review	K	황재연	lecture		
8	Midterm	K	황재연	midterm test		
9	Properties of estimators: unbiasedness, efficiency, consitency	K	황재연	lecture		
10	Point estimators and confidence interval estimators	K	황재연	lecture		
11	Introduction to hypothesis testing: Type I and type II errors, P-value	K	황재연	lecture		
12	Testing hypothesis: one-tailed and two-tailes tests	K	황재연	lecture		
13	Inference about comparing two populations: Inference about the difference between two means, inference about the ratio of two variances,	K	황재연	lecture		
14	Simple regression: assesing the model, using the regression equation	K	황재연	lecture		
15	Simple regression and Review	K	황재연	lecture		
16	Final exam	K	황재연	final test		

11. Other items of notification

Colloquium in Biological SciencesII(Capstone Design)

Course Name	Course type (credit/hours)	전필(1/1)	Course code	G071
	Target students Division/major/grade	생명과학과/4학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	토1(원534-2)(원534-2)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	생명과학과 또는 관련학과 전공필수 또는 전공 선택 교과목 3개 이상
	Related basic courses	생물학 또는 생명과학, 생물학 또는 생명과학 실험
	Recommanded concurrent courses	생명과학특수연구 I
	Related advanced courses	생명과학과 또는 관련학과 대학원 세미나

Instructor	Name (title/division)	허지연 (조교수/자연과학대학 생명과학과)				
	Office Room Number	팔달관 712호	Office phone Number	2548	e-mail	
	Office hours				Homepage address	
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course is designed to equip 4th year undergraduate students for successful professional life. In this course, students will learn problem solving ability and communication and presentation skills through literature survey and analysis of data/informations, Thus, this course provides students opportunity to get practical application ability for industry-university-institute collaboration research and development and have backgrounds for field training.

2. Course Objectives

◇ 교육목표
자연과학 또는 공학을 전공하는 고학년 (3학년 또는 4학년) 학생들에게 사회진출 이후 전공관련 실무적 능력 중의 하나인 발표 자료 준비와 발표 능력을 배양한다. 과학도/공학도/약학도/의학도가 해결하여야할 학문적/사회적/산업적인 문제의 원인과 결과를 정확히 파악하고, 이를 해결하는 능력을 키우기 위하여, 학생 또는 팀의 관심 주제를 정하고, 이 주제에 대한 문헌 및 데이터/정보 탐색과 정리-분석을 실시하여 그에 대하여 발표하고 상호 의견을 교환하며 소통하는 과정을 학습한다.

◇ 교과목 학습성과
본 강좌를 수강한 학생은,
- 과학도/공학도/약학도/의학도가 해결하여야할 학문적/사회적/산업적인 문제 혹은 주제에 대하여 인식한다.
- 문제해결 방법 혹은 관심주제에 대한 탐구 방법을 강구한다.
- 관심 주제(문제)에 대한 문헌 및 데이터/정보 탐색 결과를 분석하고 정리할 수 있다.
- 학문적/사회적/산업적인 문제 혹은 주제에 대하여 정리된 자료를 바탕으로 조리있게 발표하고 상호 의견을 교환하며 소통할 수 있다.

3. Class types and activities

Firstly, students determine a subject, which they are interested in or should be solved in terms of scientific/industrial/social issues/problems etc
Secondly, students survey literatures, database, journals, or any informatic sources.
Thirdly, students organize materials.
Lastly, students present.

4. Teaching Method

☐ lecture	☑ discussion and debate
☑ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class   ☐ automatic recording system   ☐ web-based assignment

☐ cyber lecture   ☑ blended learning(combination of online and offline teaching)

☐ class behavior analyazing system   ☐ others

6. Teaching Tools

☐ PBL(Problem Based Learning)   ☐ CBL(Case Based Learning)

☐ TBL(Team Based Learning)   ☐ others

7. Knowledge and ability required for taking this course

- 영어 논문 또는 자료 독해 능력
- Pubmed 등 open web site exploration 및 활용 능력
- 발표를 위한 소프트웨어 활용 능력 (파워포인트 등)

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20	출석률이 저조한 경우 10-50%를 감점하며 1/3 이상 결석시 F 학점이 주어짐
midterm exam			
final exam			
quiz			
presentation		30	최종 발표 (시간 준수, 주제, 발표 암기 여부, 발표 자세, 정량적 자료 제시 여부, 흥미 유발 여부, 질문 대응 등)
discussion			
homework		30	논문 리뷰 중간 발표 평가
etc		20	토론 및 질의 활동 평가
study hours	주당 1시간 학습이 필요		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	해당 사항 없음			

10. Class system and Class shedule

- 생명과학 관련 주제를 선정하고 각 학생 (혹은 팀)은 선정한 주제에 대하여 자료를 수집하여, 순서에 따라 발표
- 발표에 대한 질의 및 응답과 토론

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	강의 소개, 발표 주제 및 순서 결정	E	허지연			
2	연구 주제 탐구 방법 및 구두 발표 요령	E	허지연			
3	논문 탐색	E	허지연			
4	선택한 논문의 피드백	E	허지연			
5	논문 연구	E	허지연			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	논문 연구	E	허지연			
7	발표 준비	E	허지연			
8	중간고사 기간	E	허지연			
9	중간 점검 발표	E	허지연			
10	논문 연구	E	허지연			
11	논문 연구	E	허지연			
12	발표 준비	E	허지연			
13	최종발표 1	E	허지연			
14	최종발표 2	E	허지연			
15	최종발표 3	E	허지연			
16	기말고사기간	E	허지연			

11. Other items of notification

Comparing Novels with Films

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X544
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화D(성233) 목C(성233)(성233)	English Grade	A(100%English)
Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)		Joseph Ball (조교수/대학 다산학부대학)		
	Office Room Number	성호관417호	Office phone Number	2846	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course concentrates on comparing novels with films. Lessons will include pair work, group tasks, and class discussions about the text. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

1) Students will gain confidence and improve their understanding of novels by reading

2) Students will watch films and compare them to the novels.

3) Students will make their their own short films.
This includes: writing and practicing dialogs to make a video, performing in their own film, and giving criticism about the performances.

4) Students will also learn to critique the texts with specific reasons, details, and examples.

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by writing expressions and a dialog. Students will also learn to produce a film by writing it and then recording it. Lessons will include models for developing and
supporting their main ideas for the film.

4. Teaching Method

☑ lecture   ☑ discussion and debate

☑ team project(presentation and case studies)   ☐ experiments(role-playing,etc)

☐ designing and production   ☐ on-site learning(on-site training)

☐ others

5. Support Systems in Use

☑ e-class   ☑ automatic recording system   ☐ web-based assignment

☑ cyber lecture   ☑ blended learning(combination of online and offline teaching)

☐ class behavior analyazing system   ☐ others

6. Teaching Tools

☐ PBL(Problem Based Learning)   ☐ CBL(Case Based Learning)

☑ TBL(Team Based Learning)   ☐ others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		15%	
midterm exam		20%	Midterm Only
final exam			
quiz			
presentation		15%	
discussion			
homework		25%	Group Written Script
etc		25%	Group Film
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	Harry Potter and the Sorcerer's Stone	J. K. Rowling	Scholastic Inc. Arthur A. Levine Books	1997
	Harry Potter and the Chamber of Secrets	J. K. Rowling	Scholastic Inc. Scholastic and the Lantern Design,	1999

10. Class system and Class shedule

We will follow the syllabus and of course the order of the novels.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Review of SyllabusRead Harry Potter and the Chamber of Secrets: Pages 1-11, 12-23, 24-41 Daily Discussion	K	Joseph Ball	Online & Video		
2	Read: Harry Potter and the Soceror's Stone: Pages 42-64, 65-85 Daily Discussion	K	Joseph Ball	Online & Video		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Read: Harry Potter and the: Pages 86-103, 104-121 Daily Discussion	K	Joseph Ball	Online & Video		
4	Read: Harry Potter and the SS: Pages 122-139, 140-160 Daily Discussion	K	Joseph Ball	Online & Video		
5	Read: Harry Potter and the SS: Pages 161-181, 182-204, 205-226 Daily Discussion추석 Holiday No Class 9/30	K	Joseph Ball	Online & Video		
6	Read: Harry Potter and the Chamber of Secrets: Pages 227-248, 249-264, 265-282 Daily DiscussionWatch Movie for Video Class	K	Joseph Ball	Online & Video		
7	Review for Midterm ExamRead: Harry Potter and the Chamber of Secrets: Pages 283-305, 306-326, 327-341 Daily Discussion Watch Movie for Video Class	K	Joseph Ball	Online & Video		
8	Mid-term Exam 20%Read Harry Potter and the Sorcerer's Stone:Pages 1-17, 18-30, 31-45	K	Joseph Ball	Online & Video		
9	Review Guidelines for Writing the ScriptRead Harry Potter and the Sorcerer's Stone:Pages 46-60, 61-87, 88-112 Daily Discussion	K	Joseph Ball	Online & Video		
10	Review Guidelines for Performing in the FilmRead Harry Potter and the Sorcerer's Stone:Pages 113-130, 131-142, 143-162 Daily Discussion	K	Joseph Ball	Online & Video		
11	Review for Shooting the FilmRead Harry Potter and the Sorcerer's Stone:Pages 163-179, 180-193, 194-214 Daily Discussion	K	Joseph Ball	Online & Video		
12	Read Harry Potter and the Sorcerer's Stone:Pages 215-227, 228-241, 242-261 Daily Discussion Watch Movie for Video Class	K	Joseph Ball	Online & Video		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
13	Written Scripts for Films Due 25% Read Harry Potter and the Sorcerer's Stone:Pages 262-287, 288-309 Daily DiscussionWatch Movie for Video Class	K	Joseph Ball	Online & Video		
14	Final Review for Group FilmsWatch Movie for Video Class	K	Joseph Ball	Online & Video		
15	Group Films 25%	K	Joseph Ball	Online & Video		
16	Group Films 25%	K	Joseph Ball	Online & Video		

11. Other items of notification

Computer Networks

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>전필(3/3)</td><td>Course code</td><td>F030</td></tr>
<tr><td>Target students Division/major/grade</td><td>소프트웨어학과/2학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>월E(팔108) 수E(팔108)(팔108)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3"></td></tr>
<tr><td>Related basic courses</td><td colspan="3"></td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3">무선네트워크, 네트워크소프트웨어</td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">Paul Rajib (조교수/소프트웨어융합대학 소프트웨어학과)</td></tr>
<tr><td>Office Room Number</td><td>팔달관 1011</td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
<tr><td>Office hours</td><td></td><td>Homepage address</td><td colspan="2">http://mmcn.ajou.ac.kr</td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
</table>

1. Introduction

Understand standard Internet data link, network, transport, and application layer protocols, focusing on TCP/IP protocol. These include protocols such as ARP, IP, RIP, ICMP, TCP, UDP, HTTP, SMTP, DNS, SNMP, etc. A comprehensive study of each movement and interaction.

This course aims to provide a general understanding of computer networks, internet structures, protocols, and related applications. Although it was used from the users point of view, it will tell you how the Internet actually works. You will learn related protocols along the protocol stack. In particular, from the upper layer protocol familiar to the user to the lower layer. It will be easier to understand by explaining as you go down.

2. Course Objectives

<교육목표>
이 과목의 교육목표는 컴퓨터 네트워크의 구조, 프로토콜 및 관련 어플리케이션에 대한 전반적인 이해를 하도록 하는 것이 목표이다.

<교과목 학습성과>
1. 지금까지 컴퓨터 네트워크을 사용자 입장에서 사용하였지만 실제적으로 어떻게 동작되는가를 이해하고, 현재 가장 많이 쓰이고 있는 인터넷 프로토콜 스텍을 따라 관련 프로토콜들을 이해 할 수 있다.

2. 현재 인터넷에 적용되고 있지 않지만 주목되는 연구 분야 혹은 개발중인 프로토콜들에 대해서도 이해할 수 있는 기회를 부여하며, 앞으로 학생들이 연구소 및 산업체 등에서 그 지식을 활용할 수 있는 정보통신 기본지식을 확보할 수 있다.

3. 또한 전세계적으로 신속히 변화돼고 있는 차세대 인터넷 및 유비쿼터스 시대에 대한 기술추세를 이해하고 향후 대처할 수 있는 기량을 확보할 수 있다.

3. Class types and activities

4. Teaching Method

☑ lecture	☐ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☑ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☑ others ( )

7. Knowledge and ability required for taking this course

일상 생활에서 인터넷을 사용하여 다양한 서비스를 접속해 본 경험을 갖고 있으면 본 강좌의 내용을 이해하는데 도움이 될 것이다
자료구조의 그래프에 대해 충분한 이해를 갖고 있어야 한다.
영어문서를 독해하고 이해할수 있는 기본 능력을 갖추어야 한다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	14	10%	결석 1회당 감점
midterm exam	1	30%	교과목 학습성과 1,3번 항목
final exam	1	35%	교과목 학습성과 1,3번 항목
quiz	2	20%	각 퀴즈당 10%
presentation			
discussion			
homework	2	20%	챕터 문제 풀이, 네트워크 분석 과제
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Computer networking:A Top-Down Approach (6th Edition)	J.F.Kurose&K. W.Ross	Pearson Education	2012

10. Class system and Class shedule

대체적으로 학생들이 익숙한 응용 계층에서 단계적으로 하위계층으로 진행함으로써 인터넷이 동작하는 원리에 대한 이해를 쉽게 하고, 요즈음 이슈가 되고 있는 Wirelee Network에 대한 내용도 함께 다룬다. 다음과 같은 체계를 가지고 진행한다.

제1장: 기본적인 인터넷 이해
제2장: Application Layer
제3장: Transport Layer
제4장: Network Layer
제5장: Link Layer
제6장: Wireless Network

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Chap 1: Computer Networks and the Internet	K	Paul Rajib	강의	Quiz1 및 중간고사	
2	Chap 2: Application Layer	K	Paul Rajib	강의	Quiz1 및 중간고사	
3	Chap 2: Application Layer	K	Paul Rajib	강의	Quiz1 및 중간고사	

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Chap 2: Application Layer	K	Paul Rajib	강의	Quiz1 및 중간고사	
5	Chap 3: Transport Layer	K	Paul Rajib	강의	중간고사	
6	Chap 3: Transport Layer	K	Paul Rajib	강의	중간고사	
7	Chap 3: Transport Layer	K	Paul Rajib	강의	중간고사	
8	중간고사	K	Paul Rajib	중간고사		
9	Chap 4: Networkk Layer	K	Paul Rajib	강의	Quiz2및 기말고사	
10	Chap 4: Network Layer	K	Paul Rajib	강의	Quiz2및 기말고사	
11	Chap 4: Network Layer	K	Paul Rajib	강의	Quiz2및 기말고사	
12	Chap 5: Link Layer	K	Paul Rajib	강의	기말고사	
13	Chap 5: Link Layer	K	Paul Rajib	강의	기말고사	
14	Chap 6: Wireless and Mobile Networks	K	Paul Rajib	강의	기말고사	
15	Chap 6: Wireless and Mobile Networks	K	Paul Rajib	강의	기말고사	
16	기말고사	K	Paul Rajib	기말고사		

11. Other items of notification

Computer Networks

Course Name	Course type (credit/hours)	전필(3/3)	Course code	F031
	Target students Division/major/grade	소프트웨어학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화E(팔325) 금E(팔325)(팔325)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	무선네트워크, 네트워크소프트웨어

Instructor	Name (title/division)		Paul Rajib (조교수/소프트웨어융합대학 소프트웨어학과)		
	Office Room Number	팔달관 1011	Office phone Number	e-mail	
	Office hours		Homepage address	http://mmcn.ajou.ac.kr	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number	e-mail	

1. Introduction

Understand standard Internet data link, network, transport, and application layer protocols, focusing on TCP/IP protocol. These include protocols such as ARP, IP, RIP, ICMP, TCP, UDP, HTTP, SMTP, DNS, SNMP, etc. A comprehensive study of each movement and interaction.

This course aims to provide a general understanding of computer networks, internet structures, protocols, and related applications. Although it was used from the users point of view, it will tell you how the Internet actually works. You will learn related protocols along the protocol stack. In particular, from the upper layer protocol familiar to the user to the lower layer. It will be easier to understand by explaining as you go down.

2. Course Objectives

<교육목표>
이 과목의 교육목표는 컴퓨터 네트워크의 구조, 프로토콜 및 관련 어플리케이션에 대한 전반적인 이해를 하도록 하는 것이 목표이다.

<교과목 학습성과>
1. 지금까지 컴퓨터 네트워크을 사용자 입장에서 사용하였지만 실제적으로 어떻게 동작되는가를 이해하고, 현재 가장 많이 쓰이고 있는 인터넷 프로토콜 스텍을 따라 관련 프로토콜들을 이해 할 수 있다.

2. 현재 인터넷에 적용되고 있지 않지만 주목되는 연구 분야 혹은 개발중인 프로토콜들에 대해서도 이해할 수 있는 기회를 부여하며, 앞으로 학생들이 연구소 및 산업체 등에서 그 지식을 활용할 수 있는 정보통신 기본지식을 확보할 수 있다.

3. 또한 전세계적으로 신속히 변화돼고 있는 차세대 인터넷 및 유비쿼터스 시대에 대한 기술추세를 이해하고 향후 대처할 수 있는 기량을 확보할 수 있다.

3. Class types and activities

4. Teaching Method

[V] lecture	[ ] discussion and debate
[ ] team project(presentation and case studies)	[ ] experiments(role-playing,etc)
[ ] designing and production	[ ] on-site learning(on-site training)
[ ] others	

5. Support Systems in Use

[V] e-class	[V] automatic recording system	[ ] web-based assignment
[ ] cyber lecture	[ ] blended learning(combination of online and offline teaching)	
[ ] class behavior analyazing system	[ ] others	

6. Teaching Tools

[ ] PBL(Problem Based Learning)	[ ] CBL(Case Based Learning)
[ ] TBL(Team Based Learning)	[V] others ( )

7. Knowledge and ability required for taking this course

일상 생활에서 인터넷을 사용하여 다양한 서비스를 접속해 본 경험을 갖고 있으면 본 강좌의 내용을 이해하는데 도움이 될 것이다
자료구조의 그래프에 대해 충분한 이해를 갖고 있어야 한다.
영어문서를 독해하고 이해할수 있는 기본 능력을 갖추어야 한다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	14	10%	결석 1회당 감점
midterm exam	1	30%	교과목 학습성과 1,3번 항목
final exam	1	35%	교과목 학습성과 1,3번 항목
quiz	2	20%	각 퀴즈당 10%
presentation			
discussion			
homework	2	20%	챕터 문제 풀이, 네트워크 분석 과제
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Computer networking:A Top-Down Approach (6th Edition)	J.F.Kurose&K.W.Ross	Pearson Education	2012

10. Class system and Class shedule

대체적으로 학생들이 익숙한 응용 계층에서 단계적으로 하위계층으로 진행함으로써 인터넷이 동작하는 원리에 대한 이해를 쉽게 하고, 요즈음 이슈가 되고 있는 Wirelee Network에 대한 내용도 함께 다룬다. 다음과 같은 체계를 가지고 진행한다.

제1장: 기본적인 인터넷 이해
제2장: Application Layer
제3장: Transport Layer
제4장: Network Layer
제5장: Link Layer
제6장: Wireless Network

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Chap 1: Computer Networks and the Internet	K	Paul Rajib	강의	Quiz1 및 중간고사	
2	Chap 2: Application Layer	K	Paul Rajib	강의	Quiz1 및 중간고사	
3	Chap 2: Application Layer	K	Paul Rajib	강의	Quiz1 및 중간고사	

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Chap 2: Application Layer	K	Paul Rajib	강의	Quiz1 및 중간고사	
5	Chap 3: Transport Layer	K	Paul Rajib	강의	중간고사	
6	Chap 3: Transport Layer	K	Paul Rajib	강의	중간고사	
7	Chap 3: Transport Layer	K	Paul Rajib	강의	중간고사	
8	중간고사	K	Paul Rajib	중간고사		
9	Chap 4: Networkk Layer	K	Paul Rajib	강의	Quiz2및 기말고사	
10	Chap 4: Network Layer	K	Paul Rajib	강의	Quiz2및 기말고사	
11	Chap 4: Network Layer	K	Paul Rajib	강의	Quiz2및 기말고사	
12	Chap 5: Link Layer	K	Paul Rajib	강의	기말고사	
13	Chap 5: Link Layer	K	Paul Rajib	강의	기말고사	
14	Chap 6: Wireless and Mobile Networks	K	Paul Rajib	강의	기말고사	
15	Chap 6: Wireless and Mobile Networks	K	Paul Rajib	강의	기말고사	
16	기말고사	K	Paul Rajib	기말고사		

11. Other items of notification

Computer Organization and Architecture

Course Name	Course type (credit/hours)	전필(3/3)	Course code	F033
	Target students Division/major/grade	소프트웨어학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(팔325) 수A(팔325)(팔325)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	Basic Computer Programming		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	Yared Zerihun Bekele (강의교수/소프트웨어융합대학 소프트웨어학과)				
	Office Room Number		Office phone Number		e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	yaredzerihun@ajou.ac.kr

1. Introduction

This course introduces students to the field of computer organization and architecture. The primary goal is to understand how the
components of modern computers are built from the digital basics, understand the organization thereof, and cover techniques for
data representation and manipulation.

We will learn
-> the principles underlying how hardware interprets programs written in high level languages. We will learn the RISC instruction set interface, which is between computer hardware and software.
-> a variety of architecture and organization-based techniques, including pipelining, caching, etc

2. Course Objectives

컴퓨터 시스템의 기본 동작 원리를 이해한다. 고급언어로 작성된 응용 프로그램(소프트웨어)이 어떻게 프로세서(하드웨어)에서 동작하는지 이 둘 사이의 인터페이스가 어떻게 설계되었는지를 익히는 것이 가장 큰 목표이다.
- 교육용 명령어 집합 구조 (Instruction Set Architecture)에 대해서 이해를 하고, 이 것이 어떻게 수행되는지를 이해한다.

다음 프로세서의 성능 향상을 높이기 위해서 어떠한 기법들이 있는지를 공부하고, 응용 프로그램을 어떻게 작성하느냐에 따라서 성능이 달라질 수 있는지를 예제를 통해 공부한다.
- 파이프라이닝 기법을 통해서 명령어들을 어떻게 효과적으로 처리 할 수 있는지 이해한다.
- 캐쉬 구조를 통해서 어떻게 메모리로 접근하는데 소비되는 시간을 절약할 수 있는지 이해한다.

3. Class types and activities

Class is primarly lectures based. Examples are introduced to help students understand the subject matter.

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [ ] discussion and debate
- [V] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [V] cyber lecture
- [ ] class behavior analyazing system
- [V] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [ ] TBL(Team Based Learning)
- [V] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

Basic computer programming

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5~10%	
midterm exam	1	30~35%	
final exam	1	35~40%	
quiz			
presentation			
discussion			
homework		20~30%	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Computer Organization and Design RISC-V: TheHardware / Software Interface (2nd edition)	Davide Patterson and John L. Hennessy	Morgan Kaufmann Pub.	
Ref.	기타 필요한 자료는 과목 페이지에 업로드			

10. Class system and Class shedule

Lectures
- Composed of weekly class plans.
-Q and As during class time

2. Instruction Set Architecture
- - RISC

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Overview	E	Yared Zerihun Bekele			
2	Overview of a Digital System	E	Yared Zerihun Bekele			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Combinational logic	E	Yared Zerihun Bekele			
4	ISA	E	Yared Zerihun Bekele			
5	RISC ISA	E	Yared Zerihun Bekele			
6	Integer Arithmetic	E	Yared Zerihun Bekele			
7	Floating point arithmetic	E	Yared Zerihun Bekele			
8	Midterm	E	Yared Zerihun Bekele			
9	Performance	E	Yared Zerihun Bekele			
10	Processor I	E	Yared Zerihun Bekele			
11	Processor II	E	Yared Zerihun Bekele			
12	Pipelining	E	Yared Zerihun Bekele			
13	Parallel processing	E	Yared Zerihun Bekele			
14	Memory Organization	E	Yared Zerihun Bekele			
15	Memory Organization/Assembly language	E	Yared Zerihun Bekele			
16	Final term	E	Yared Zerihun Bekele			

11. Other items of notification

Computer Programming

Course Name	Course type (credit/hours)	교필(3/3)	Course code	E007
	Target students Division/major/grade	교통시스템공학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(팔1020) 목D(팔1020)(팔1020)	English Grade	A(100%English)
Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses	교통수요예측프로젝트, 모빌리티데이터분석		

Instructor	Name (title/division)		김의진(조교수/교통시스템공학과)			
	Office Room Number	산학협력원 823호	Office phone Number	2402	e-mail	
	Office hours	An hour after class	Homepage address		https://sites.google.com/view/euijinkim	
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

The Computer Programming course aims to teach the Python language most widely used for data analysis from scratch. This course is designed for beginners who do not know Python, and it deals with installation, environment setting, basic Python grammar, and major packages for data analysis. This course only considers Python grammar as much as the data analysts need and put more effort into the various practice for data analysis. By doing so, the students can naturally become familiar with Python and data analysis. Furthermore, this course teaches how to use ChatGPT and Google to solve the programming problem by themselves. Promoting interest in Python programming, in particular, by experiencing the entire data analysis process, is one of the main objectives of this lecture. This course can be used universally in engineering dealing with data analysis, and a basic understanding of programming learned through Python can be easily extended to other languages.

2. Course Objectives

3. Class types and activities

This course is conducted by learning only the minimum level of the basic programming principles and Python grammar, then entering the data analysis example and learning the necessary functions at that time. The students will experience the entire data analysis process while performing several programming and data analysis assignments and also will have their own analytical project experience. This allows the students to learn programming with a clearer sense of purpose by directly feeling what purpose and needs Python is used for, rather than learning the boring Python grammar and functions.

4. Teaching Method

☑ lecture	☐ discussion and debate
☐ team project(presentation and case studies)	☑ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☑ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

Statistics, Basic documenting and calculation (Words, Excels)

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam			
final exam			
quiz			
presentation		10	Participating in Discussion and Practice
discussion			
homework	4	20	Mini Programming Assignment
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Do it! Python Data Analysis	김영우	이지스퍼블리싱	2022
Ref.	An Introduction to Statistical Learning with Python (https://www.statlearning.com/)	Gareth James; Daniela Witten; Trevor Hastie; Rob Tibshirani; Jonathan Taylor	Springer	2023

10. Class system and Class shedule

본 수업은 수업의 목표에 따라 Python 환경 설정, Python 기초 원리 및 문법, 데이터 분석 예제를 통한 데이터 분석 관련 패키지 및 함수 학습, 자기주도적 데이터 분석 관련 문제 해결 방법의 순서로 교육을 진행할 예정입니다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Syllabus / Introduction of Python	E	김의진	이론 수업		
2	Environment Setting / Basic Principle	E	김의진	실습 수업		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Python Grammar	E	김의진	실습 수업		
4	Python Grammar	E	김의진	실습 수업		
5	Data Preprocessing (I)	E	김의진	실습 수업		
6	Data Preprocessing (II)	E	김의진	실습 수업		
7	Basic Data Analysis (I)	E	김의진	실습 수업		
8	Basic Data Analysis (II)	E	김의진	실습 수업		
9	Data Visualization	E	김의진	실습 수업		
10	Statistical Analysis (I)	E	김의진	실습 수업		
11	Statistical Analysis (II)	E	김의진	실습 수업		
12	Prediction	E	김의진	실습 수업		
13	Data Analysis Project (I)	E	김의진	토의/토론 수업		
14	Data Analysis Project (II)	E	김의진	토의/토론 수업		
15	Open Source, Google, ChatGPT	E	김의진	토의/토론 수업		
16	Lecture Review	E	김의진	이론 수업		

11. Other items of notification

Computer Programming and Practice

Course Name	Course type (credit/hours)	전필(4/5)		Course code	F025
	Target students Division/major/grade	소프트웨어학과/1학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	화09:00~10:30 (팔409) 수4(팔333) 수5(팔333) 금09:00~10:30 (팔409)(팔333,팔409)		English Grade	A(100%English)
Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				
Instructor	Name (title/division)	Yared Zerihun Bekele (강의교수/소프트웨어융합대학 소프트웨어학과)			
	Office Room Number		Office phone Number		e-mail	
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail	yaredzerihun@ajou.ac.kr

1. Introduction

This course introduces students to the fundamentals of computer programming. The contents include software life
cycle, techniques for program design and development, data structures, and the constructs of C programming language.

2. Course Objectives

<교육목표>
학생들로 하여금 작은 규모의 문제를 분석하여 필요한 요구사항을 도출하고, 이를 바탕으로 설계/구현할 수 있는 능력을 갖추게 한다.

<교과목 학습성과>
1. C 언어의 문법적 구조 및 의미를 이해한다.
2. 주어진 문제의 요구 사항을 분석하여 정리할 수 있다.
3. 주어진 문제를 해결하기 위한 논리적 흐름을 기술할 수 있다.
4. 주어진 의사 코드를 이용해 프로그램을 구현할 수 있다.
5. 주어진 프로그램을 의사 코드로 표현할 수 있다.
6. 다른 사람이 작성한 C 프로그램 코드를 분석하고, 이해할 수 있다.
7. 다양한 공학 문제를 C 프로그램을 통하여 해결할 수 있다.

3. Class types and activities

Upon the completion of this course, students will be able to:
→ Understand SDLC and the concept of programming
→ Have an understanding of algorithms
→ Understand the syntax and semantics of constructs of the C language.
→ Write whole programs by dividing large problems into smaller parts

4. Teaching Method

[V] lecture

[ ] discussion and debate

[ ] team project(presentation and case studies)

[V] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[ ] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam	1	30~35	
final exam	1	30~45	
quiz			
presentation			
discussion			
homework		10~30	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Problem Solving and Program Design in C 8th ed.	Jeri R. Hanly and Elliot B. Koffman	Pearson	
Ref.	C Programming: A Modern Approach, 2nd e	K. N. King	W. W. Norton & Company	

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course overview, SDLC		Yared Zerihun Bekele			
2	Fundamentals of C		Yared Zerihun Bekele			
3	Formatted Input/Output &Expressions		Yared Zerihun Bekele			

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Basic Types & Arrays		Yared Zerihun Bekele			
5	Selection statments & Loops		Yared Zerihun Bekele			
6	Functions		Yared Zerihun Bekele			
7	Pointers I		Yared Zerihun Bekele			
8	Mid exam		Yared Zerihun Bekele			
9	Pointers ||		Yared Zerihun Bekele			
10	Strings			Yared Zerihun Bekele			
11	Strings ||		Yared Zerihun Bekele			
12	Structures, Unions, andEnumerations		Yared Zerihun Bekele			
13	Dynamic allocation of memory		Yared Zerihun Bekele			
14	File Operations (creation,modification, deletion		Yared Zerihun Bekele			
15	Bitwise operations		Yared Zerihun Bekele			
16	Final exam		Yared Zerihun Bekele			

11. Other items of notification

Computer Systems for Artificial Intelligence

Course Name	Course type (credit/hours)	전선(3/3)		Course code	F043
	Target students Division/major/grade	소프트웨어학과/4학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	화F(팔407) 목E(팔407)(팔407)		English Grade	A(100%English)
Reference to this course	Prerequisite courses	컴퓨터구조, 운영체제, 기계학습			
	Related basic courses	인공지능			
	Recommanded concurrent courses				
	Related advanced courses	고급컴퓨터구조, 고급운영체제, 고급기계학습			

Instructor	Name (title/division)	김상훈(부교수/소프트웨어학과)			
	Office Room Number	팔달관 1004-2호	Office phone Number	3423	e-mail
	Office hours		Homepage address	https://sslab.ajou.ac.kr	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

The current proliferation and success of artificial intelligence (AI) have been achieved based on high-performance computer systems. In particular, the implementation of massive AI models has become possible through effective collection, management, processing, storage, and transmission of vast amounts of data, as well as the utilization of large-scale parallel processing techniques using multiple CPUs, GPUs, accelerators, and the like. This course aims to educate students on the necessary computer system-level technologies and approaches to establish an efficient framework for AI applications. Additionally, students will acquire knowledge on utilizing AI to solve computer system problems and other related methodologies.

2. Course Objectives

3. Class types and activities

This lecture will covers various topics in computer systems support for next-generation AI applications and AI approaches for smart computer systems. To this end, the instructor will do the lecture on the key concepts for a topic, which is followed by presentation and discussion on selected papers that cover the topic. Students should prepare for the discussion by writing down critiques on the papers.

4. Teaching Method

[V] lecture

[V] discussion and debate

[ ] team project(presentation and case studies)

[ ] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[ ] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

Must have taken all the following undergraduate lectures. It is strongly recommended to not take this class if you did not take any one of them.
- Computer architecture
- Operating systems
- Machine learning

Must understand the key concepts in computer systems and machine learning
- Process Scheduling
- Memory management with demand paging
- Fundamental neural network models: DNN, CNN, RNN

Must have decent critical reading and technical writing skill to write critiques on academic papers

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	16 weeks	15	Attendance and participation
midterm exam			
final exam	1	40	Written exam
quiz			
presentation	1	15	Paper presentation
discussion			
homework	5-10	30	Paper critiques
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Selected papers from top-tier conferences and journal in the area of computer systems and machine learning	-	ISCA, ASPLOS, SOSP, OSDI, MICRO, HPCA, NeruIPS, ICML, and ICLR	-

10. Class system and Class shedule

- The instructor will do the lecture on the key concepts for a topic
- Students present and discuss on selected papers that cover the topic.

- The topics are selected various area for AI for systems and systems for AI.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course orientation and ▢AI systems overview	E	김상훈	Lecture		
2	Review key background concepts	E	김상훈	Lecture		
3	Review key background concepts	E	김상훈	Lecture		
4	Machine Learning Frameworks	E	김상훈	Lecture		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Machine Learning Frameworks	E	김상훈	Presentation / discussion		
6	Parallel / distributed frameworks	E	김상훈	Lecture		
7	Parallel / distributed frameworks	E	김상훈	Presentation / discussion		
8	Midterm exam	E	김상훈	Written exam		
9	Hardware Acceleration for Machine Learning	E	김상훈	Lecture		
10	Hardware Acceleration for Machine Learning	E	김상훈	Presentation / discussion		
11	System supports for large AI models	E	김상훈	Lecture		
12	System supports for large AI models	E	김상훈	Presentation / discussion		
13	System supports for large AI models	E	김상훈	Presentation / discussion		
14	ML Cluster Management	E	김상훈	Lecture		
15	ML Cluster Management	E	김상훈	Presentation / discussion		
16	Final exam	E	김상훈	Written exam		

11. Other items of notification

Course Name	Course type (credit/hours)	전선(3/3)		Course code	I057
	Target students Division/major/grade	/		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(연암507) 수C(연암507)(연암507)		English Grade	A(100%English)

Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)		이준엽 (부교수/경영대학 경영학과)			
	Office Room Number	다산관 319-1	Office phone Number	2713	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

The primary objective of this course is to provide an understanding of the tools and concepts involved in financial decision-making. Since we have learned the concepts of valuation and risk and return from the first half of the book (financial management course), we will develop an understanding of the capital structure and dividend policy from the latter half of the book and use this understanding to apply it to some of special topics in corporate finance. The special topics include options, short-term finance and planning, raising capital (IPOs), mergers & acquisitions, and corporate governance.

2. Course Objectives

교육목표: The primary objective of this course is to provide an understanding of the tools and concepts involved in financial decision-making. Since we have learned the concepts of valuation and risk and return from the first half of the book (financial management course), we will develop an understanding of the capital structure and dividend policy from the latter half of the book and use this understanding to apply it to some of special topics in corporate finance. The special topics include options, short-term finance and planning, raising capital (IPOs), mergers & acquisitions, and corporate governance.

교과목 학습성과: Upon successful completion of this course, students should be able to understand

1)Efficient market hypothesis and behavioral challenges
2)The theorem of Modigliani and Miller and optimal capital structure
3)Cost of financial distress, agency costs, pecking-order theory
4)Dividend policy and stock repurchase
5)Options, Black-Scholes model, and Put-Call parity
6)Management of short-term finance, uses and sources of cash, networking capital.
7)Venture capital market, Initial public offerings (IPOs)
8)Mergers and acquisitions (M&A), leverage buyout (LBO)
9)Corporate governance and agency costs

3. Class types and activities

4. Teaching Method

☑	lecture	☑	discussion and debate
☑	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☑	others ( )

7. Knowledge and ability required for taking this course

-MS office
-한글 소프트웨어

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			Refer to my syllabus for details.
midterm exam			Refer to my syllabus for details.
final exam			Refer to my syllabus for details.
quiz			Refer to my syllabus for details.
presentation			Refer to my syllabus for details.
discussion			Refer to my syllabus for details.
homework			Refer to my syllabus for details.
etc			
study hours	약 3~4 시간/week		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Corporate Finance: Core Principles and Application 5/E	Stephen A. Ross, Randolph W. Westerfield, Jeffrey F. Jaffe, Bradford D. Jordan	McGraw-Hill Education, International Student Ed	

10. Class system and Class shedule

Refer to my syllabus for details.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Refer to my syllabus for details.		이준엽			

11. Other items of notification

Creative Media Programming

Course Name	Course type (credit/hours)	전선(4/5)	Course code	M003
	Target students Division/major/grade	미디어학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월12:00~13:30 (산422) 수12:00~13:30 (산422) 금2(산419) 금3(산419)(산422,산419)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	Computer Programming
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Teemu H. Laine (부교수/소프트웨어융합대학 디지털미디어학과)			
	Office Room Number		Office phone Number	1851	e-mail
	Office hours	Thursday 9am-11am	Homepage address		

Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course introduces students to methods and tools related to creative media programming (e.g. interactive arts, games). The course covers two major creative media programming environments: Processing and Godot Game Engine.

During the first part of the course, students learn about Processing, which is a library and Integrated Development Environment (IDE) aimed at media artists, designers, media software creators, and engineers. Using Processing, students learn how to quickly create interactive applications and prototypes that use graphics, video, sound, text, etc. The first part is finalized with Team Project 1 where each team produces an interactive media app prototype using Processing.

During the second part of the course, students learn about the Godot Game Engine that is aimed for creating games and other creative media applications. Godot is famous to be beginner-friendly, and it uses the GDScript language with simple Python-like syntax. Using Godot, students learn learn how to create creative and highly interactive applications based on 2D graphics, movement, collisions, tile maps, animations, audio, and user interfaces. The second part of the course ends with Team Project 2 where each team creates a simple 2D game using Godot.

Throughout the course, students will complete individual lab assignments to learn and improve the skills needed for creative media programming.

Are you feeling that programming is hard? No worries! We'll start the course with Processing, which is very beginner-friendly tool. You'll be able to improve your coding skills comfortably! Professor, TA and your classmates will be there to support you.

Are you a good programmer? Don't worry! You can do a lot of complex stuff with Processing and Godot! I promise that you will learn many new things!

2. Course Objectives

This course has the following educational goals and expected learning outcomes:
1. Learn and practice the Processing library / IDE to create highly interactive media applications
2. Learn how to program creative media applications that combine graphics, sound, video, text, and other media assets.
3. Learn the basics of a game engine to build simple 2D games.
4. Learn how to integrate various media assets into an interactive game.
5. Improve your programming ability
6. Improve team work skills
7. Improve English communication skills

3. Class types and activities

The learning contents are presented through lectures that combine theory, practical programming demonstrations, and discussions.

Students complete individual lab assignments on lecture topics. These labs which help students improve their programming skills and apply the knowledge acquired from the lectures. Professor and TA(s) provide individual support and guidance to the students for the labs.

In team projects, students will work in teams to iteratively design and implement creative media applications. The first team project will be based on Processing, whereas the second team project will be based on Godot. Both team projects are based on the knowledge and skills that the students acquire during the course. During the team projects, teams will have regular meetings with professor and TA(s) to present their progress and to get help.

There will be a KakaoTalk room where students can ask questions and discuss with Professor and TA(s) on any topic.

4. Teaching Method

[V] lecture		[V] discussion and debate	
[V] team project(presentation and case studies)		[ ] experiments(role-playing,etc)	
[ ] designing and production		[ ] on-site learning(on-site training)	
[V] others (Labs; ad-hoc discussions in KakaoTalk)			

5. Support Systems in Use

[V] e-class	[ ] automatic recording system	[ ] web-based assignment
[ ] cyber lecture	[V] blended learning(combination of online and offline teaching)	
[ ] class behavior analyazing system	[ ] others	

6. Teaching Tools

☐ PBL(Problem Based Learning)   ☐ CBL(Case Based Learning)

☑ TBL(Team Based Learning)   ☐ others

7. Knowledge and ability required for taking this course

Students must have basic English communication skills because the course is delivered 100% in English. There may be a Korean TA but it is not guaranteed.

Moreover, students must have basic programming experience. Previous experience of developing media applications (e.g. games) is useful, but not mandatory.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	Attendance
midterm exam		25	Final exam
final exam			
quiz			
presentation			
discussion			
homework		25	Lab assignments
etc		45	Team Project 1 & Team Project 2
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	Lecture notes, websites links given during the lecture			

10. Class system and Class shedule

The following topics will be covered (tentative):
    ? Processing
        ? Basics, interaction events
        ? Presentation, capturing and manipulation of graphics
        ? Playback, recording and manipulation of video; using computer vision
        ? Playback, recording and manipulation of sound
        ? Text handling, fonts, reading/writing files
    ? Godot
        ? Basics of Godot and GDScript
        ? 2D movement and collisions
        ? Tilemaps, animations
        ? User interface
        ? Audio
        ? Navigation (pathfinding) [if there is time]

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction, Introduction to Creativity and Processing	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
2	Processing basics 1	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
3	Procesing basics 2	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
4	Graphics programming	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
5	Video programming	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
6	Sound programming	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
7	Working with text	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
8	Team project work	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
9	Introduction to Godot, GDScript basics	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
10	GDScript basics	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
11	Movement and Collisions 1	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
12	Movement and Collisions 2	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
13	TileMaps, Animations	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
14	User Interface, Sound	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		
15	Navigation / Pathfinding	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice, team project		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
16	Final Exam	E	Teemu H. Laine	Final exam		

11. Other items of notification

Cross-cultural Management

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>전선(3/3)</td><td>Course code</td><td>I033</td></tr>
<tr><td>Target students Division/major/grade</td><td>경영학과/2학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>()</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3"></td></tr>
<tr><td>Related basic courses</td><td colspan="3"></td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3"></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="5">김기민(Kimin Kim) (조교수/경영대학 경영학과)</td></tr>
<tr><td>Office Room Number</td><td>다산관 306-2호</td><td>Office phone Number</td><td>3687</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td>Mon 14:30~15:30, Thu 15:00-16:00</td><td>Homepage address</td><td colspan="3">-</td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="5"></td></tr>
<tr><td>Office Room Number</td><td>-</td><td>Office phone Number</td><td>-</td><td>e-mail</td><td>heey08@ajou.ac.kr</td></tr>
</table>

1. Introduction

The contemporary global business world requires that employees and managers develop cross-cultural competence to work effectively in international assignments, on cross-cultural teams, with increasingly diverse customers and clients, and to effectively collaborate with competitors, suppliers, partners and other relevant stakeholders.

This course is designed to introduce students to comparisons of significant cross-cultural differences and help them to become familiar with ways to effectively anticipate and address cultural differences toward organizational and individual success.

2. Course Objectives

COURSE OBJECTIVES:
1. For the student to better understand how various management functions are impacted by cross-cultural differences.
2. Participants will have the opportunity to become familiar with findings from multiple real world studies of cross-cultural managerial differences.
3. Opportunities will be provided for students to develop specific skills that can be used to anticipate and successfully address cross-cultural differences at a managerial level from theoretical and practical perspectives.

LEARNING OUTCOMES:
1. Students will be able to identify potential intercultural synergies and develop strategic plans to help organizations use them to improve market penetration, employee engagement, customer loyalty, and profits.
2. Students will understand methods of optimizing human performance and potential in organizations.
3. Students will understand culture and how it impacts organizations and businesses.
4. Students will have a working knowledge of several specific countries' cultures and several domestic Korean subcultures.
5. Students will understand human diversity, how it impacts organizations and businesses, and how it relates to culture.
6. Students will demonstrate improved cultural intelligence skills and ability to work with others from different cultures.
7. Students will be aware of and have practice using specific strategies to deal with challenges posed by

3. Class types and activities

There are a few things to be fully noticed due to the format of the course: English and Cyber course.

First, being an 100% English course, all the class activities, including taking lectures, communicating with the instructor and the TA, and writing assignments and exams, shall be conducted only in English.
Also, there could be minor penalties for incorrect or inappropriate English writings for the assignments and exams.

Second, being a cyber course, most lectures are delivered via AjouBb platform through the Internet; Recorded video lectures will be updated on weekly basis, and they will be available to watch only for two weeks after their posting.
Students are expected to manage their own resources, such as time and PCs to access to the Internet, and have no difficulties in handling related devices.
Attendance will be checked automatically when watching video lectures in full within a limited period; "Fail" on attendance will be given when watching them with fast forward function, when closing them before completion, or when watching them after due date.
For error-free attendance check, it is strongly recommended to use Google Chrome Browser rather than iOS or other platforms.
It is strongly recommended to check the status of attendance just after finishing watching video lecture every week and instantly contact the TA when finding any problem in attendance check.
Please keep in mind that, according to the University Regulation, F grade shall be given if you fail to attend classes more than a quarter of the whole classes.

Third, communications between the instructor, the TA and the students shall be conducted mostly via Ajou email and AjouBb.
Students are expected to use their official Ajou email address rather than their private email accounts such as gmail.
Students shall take their own responsibility for whatever consequences that may come from not checking their Ajou emails and posting on AjouBb.

Additionally, the exams may be conducted on-line via AjouBb or off-line in class.
In any case, in order to avoid scheduling conflict with other regular courses, the exams can be scheduled on weekends or at in the evening on weekdays.
If you are not available to take exams on the above conditions, please reconsider your course registration.

4. Teaching Method

☑	lecture	☐	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☑	others (This course provides online lecture, and requires students to conduct case analyses by		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☑	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☑ PBL(Problem Based Learning)   ☑ CBL(Case Based Learning)

☐ TBL(Team Based Learning)   ☐ others

7. Knowledge and ability required for taking this course

Fluency in reading and writing in English is strongly required.

Plagiarism check will be conducted automatically for all the writings you submit onto Ajou Bb, including weekly homework, an assignment, the midterm exam and the final exam.
Please teach yourself what plagiarism is, how to avoid it, etc.; the instructor would not provide lecture on it.
Complying with the University Regulation, F grade will be given to the students who submit writings containing significantly high plagiarism rates.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	Attendance
midterm exam	1	30	Midterm Exam
final exam	1	30	Final Exam
quiz			
presentation			
discussion			
homework	10	10	Weekly Homework
etc	1	20	Research Report
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Management Across Cultures: Challenges, Strategies, and Skills (4th ed.)	Steers and Osland	Cambridge University Press	2020
Sub	Understanding Cross-Cultural Management	Browaeys and Price	Pearson	2019

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction & Overview	E	김기민(Kimin Kim)	Cyber Lecture		
2	Global managers in a changing world	E	김기민(Kimin Kim)	Cyber Lecture		
3	Cultural environments, part 1	E	김기민(Kimin Kim)	Cyber Lecture		
4	Cultural environments, part 2	E	김기민(Kimin Kim)	Cyber Lecture		
5	Organizational environments	E	김기민(Kimin Kim)	Cyber Lecture		
6	Managerial environments	E	김기민(Kimin Kim)	Cyber Lecture		
7	Global leadership	E	김기민(Kimin Kim)	Cyber Lecture		
8	Midterm Exam	E	김기민(Kimin Kim)	-		
9	Cross-cultural communication, part 1	E	김기민(Kimin Kim)	Cyber Lecture		
10	Cross-cultural communication, part 2	E	김기민(Kimin Kim)	Cyber Lecture		
11	Managerial ethics & CSR	E	김기민(Kimin Kim)	Cyber Lecture		
12	Global partnerships & negotiations	E	김기민(Kimin Kim)	Cyber Lecture		
13	Global teams	E	김기민(Kimin Kim)	Cyber Lecture		
14	Global assignments	E	김기민(Kimin Kim)	Cyber Lecture		
15	Lessons learned: a review	E	김기민(Kimin Kim)	Cyber Lecture		
16	Final Exam	E	김기민(Kimin Kim)	-		

11. Other items of notification

Data Analytics Machine Learning

Course Name	Course type (credit/hours)	전필(3/3)		Course code	I080
	Target students Division/major/grade	e-비즈니스학과/4학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	수D(다308) 금D(다308)(다308)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		김태훈 (부교수/경영대학 e-비즈니스학과)			
	Office Room Number	다산관 431호	Office phone Number	2719	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	hsh1223@ajou.ac.kr

1. Introduction

The emerging technology enables firms to collect, process, analyze, and communicate large-scale data to achieve business value. Such skills of data scientists are essential to figure out customer needs and predict market trends over time. In this course, we will discuss the conceptual approaches towards the practice of data analytics with machine learning algorithms to be well-prepared data scientists who can suggest hidden insights and helpful implications on businesses and be professional and successful for your future careers.

2. Course Objectives

This course introduces the fundamentals of data analytics. In class, students will rely on machine learning algorithms to address business questions and discover insights by utilizing various data sets.

Upon completion of this course, students shall be able:
1. to become familiar with fundamental concepts of machine learning via lectures;
2. to perform data analytics with Python as a language tool via a series of in-class exercises;
3. to demonstrate data-driven insights on your own business questions by completing group projects;
4. to discuss the business-related value and opportunities of big-data initiatives by conducting case studies.

This course will also provide students with:
1. clear and deep understanding of different types of data characteristics;
2. analytics skills in analyzing large-scale data practically;
3. own logical reasoning in producing quality documents on findings and insights;
4. professional presentation skills to communicate data mand findings as well as to suggest insights;
5. ability to lead a task group and work with group members effectively and efficiently;
6. preparation for future careers as data scientists in business and social environments.

3. Class types and activities

This course focuses on how to utilize machine learning algorithms with business analytics to support decision-making. A business needs to employ data visualization and predictive analytics to translate data into reliable information and insightful decisions to be competitive. This course will give you the practical insights and skills required to succeed as a data scientist in today's highly analytical and data-driven digital economy.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies) [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [V] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [V] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

Students need to participate in discussions in class actively with your own reasoning and questions. They can learn more with fun when they try to see the exciting phenomena and business opportunities with their active curiosity, as one of our historic scientists pointed out:

 "The important thing is not to stop questioning. Curiosity has its own reason for existing. One cannot help but be in awe when [she]he contemplates the mysteries of eternity, of life, of the marvelous structure of reality. It is enough if one tries merely to comprehend a little of this mystery every day. Never lose a holy curiosity." --Albert Einstein, from the memoirs of William Miller quoted in Life magazine, p. 281, May 2, 1955.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		20	200 points
final exam			
quiz		15	150 points
presentation		10	Case study: 100 points
discussion		Extra credits	10 points at the maximum for the students who actively engage in in-class discussion
homework		30	300 points
etc		25	Group project: 250 points
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	In-class handouts			
Sub	Python Data Science Handbook: Essential Tools for Working with Data	Jake VanderPlas	O'Reilly	2016

10. Class system and Class shedule

A series of in-class practice will provide insights and lessons on assignments and exams. Lectures will prepare students for case studies and group projects.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to Data Science	E	김태훈	Ice breaking		
2	Python: Intro	E	김태훈	Lecture & in-class practice		
3	Python: Data Collection & Analysis	E	김태훈	Lecture & in-class practice		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Python: Data Visualization	E	김태훈	Lecture & in-class practice		
5	Supervised Learning: Linear Regression	E	김태훈	Lecture & in-class practice		
6	Supervised Learning: Logistic Regression	E	김태훈	Lecture & in-class practice		
7	Wrap-Up	E	김태훈	In-class discussion		
8	Midterm Exam	E	김태훈	Exam		
9	Supervised Learning: Decision Tree	E	김태훈	Lecture & in-class practice		
10	Unsupervised Learning: Clustering & Profiling	E	김태훈	Lecture & in-class practice		
11	Unsupervised Learning: Association & Sequence	E	김태훈	Lecture & in-class practice		
12	Text Mining	E	김태훈	Lecture & in-class practice		
13	Deep Learning	E	김태훈	Lecture & in-class practice		
14	Wrap-Up	E	김태훈	In-class discussion		
15	Group Project Presentations	E	김태훈	In-class discussion		
16	Final Exam	E	김태훈	Exam		

11. Other items of notification

Note. The above class schedule is tentative and subject to change as the semester progresses.

Office hours. A student can set up a Zoom or in-person meeting by appointment whenever she/he needs any advice or help on the coursework. Please feel free to email the instructor (at: taehunkim@ajou.ac.kr) to set a meeting when you are available.

Special needs. Students with special needs should speak with me at the beginning of the semester to accommodate any special requirements. As an instructor, I must maximize everyone's learning opportunities and experiences for your pleasant and productive semester.

Attendance. Note that the students who do not attend regularly (i.e., less than 75% of all the classes) without any right reasons fail this course.

Academic integrity. It is assumed that all work done for credit will result from the individual's or authorized group's unaided effort. Anyone who either gives or receives unauthorized assistance in preparing work at home or during exams in class will be subject to disciplinary action under the provisions and policies set forth by the university. Your signature on any piece of submitted work will provide assurance that you have neither given nor received any unauthorized help in its preparation.

In addition, plagiarism or any form of cheating involves a breach of student-teacher trust. That is, any work submitted under your name is expected to be your own. Be sure to document all ideas that are not your own. Instances of plagiarism or any other act of academic dishonesty will be reported to the school and may result in failure of the course. Not understanding plagiarism is not an excuse.

Data Mining

Course Name	Course type (credit/hours)	전선(3/3)	Course code	F074
	Target students Division/major/grade	소프트웨어학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(팔325) 수C(팔325)(팔325)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	자료구조 (Data Structures) 알고리즘 (Algorithms)		
	Related basic courses	확률과통계 (Probability and Statistics), 데이터베이스 (DB)		
	Recommanded concurrent courses	인공지능(AI), 데이터베이스 (DB)		
	Related advanced courses			

Instructor	Name (title/division)	이슬 (부교수/소프트웨어융합대학 소프트웨어학과)				
	Office Room Number	산학협력원	Office phone Number	3839	e-mail	
	Office hours		Homepage address			dilab.ajou.ac.kr
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

In this course, you will learn important topics in data mining with a semester-long project. Data mining refers to theories and algorithms for finding useful patterns from massive amount of data and it has been used in various high-impact applications such as web analysis, recommendation system, fraud detection, cybersecurity, etc. The main topics that we will cover include finding similar items, mining frequent patterns, link analysis, recommendation system, data stream mining, graph mining, time series prediction, and outlier detection.

2. Course Objectives

데이터마이닝의 기본 개념과 관련 알고리즘 전반에 대한 학습을 통해 대용량 데이터의 효과적 활용을 통해 데이터로부터 유의미한 정보를 추출할 수 있는 능력을 배양한다.
1.데이터 마이닝 분야의 기본 주제 개념 및 알고리즘 동작 방식 이해
2.주어진 데이터에 관련된 응용 문제를 도출할 수 있다.
3.도출된 문제를 해결하기 위한 효과적 분석 방법을 설계하고 결과에 대한 평가를 할 수 있다.
4.팀 기반 설계 프로젝트를 구체화하여 적절한 팀웍을 수행할 수 있다.

3. Class types and activities

- the class will be theory-oriented
- assignments will include problem-solving and programming
- projects (a proposal, final report, presentation) can be done in any programming language
(** Any change of plans will be notified asap)

4. Teaching Method

[V] lecture   [ ] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	
midterm exam		35	
final exam		35	
quiz			
presentation			
discussion			
homework		25	프로젝트 30%
etc			
study hours	3		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Mining of Massive Datasets 3rd ed http://www.mmds.org	Jure LeJur Leskovec,?An and Rajaraman,?Jeff Ullman	Cambridge	2020
Sub	Data Mining: The Textbook	Charu C. Aggarwal	Springer	2015

10. Class system and Class shedule

데이터마이닝 기초 학습 후 구체적 응용분야들을 살펴보고 각 응용분야의 주요 알고리즘들은 살펴본다.
응용:
- 패턴 마이닝,
- 링크 분석,
- 추천 시스템,
- 데이터 스트림마이닝,
- 그래프마이닝,
- 시계열 예측 및 이상 값 감지

After learning the basics of data mining, well look at specific applications and the main algorithms for each application.
Applications:
- Pattern mining,
- Link analysis,
- Recommendation systems,
- data stream mining,
- graph mining,
- Time series prediction and outlier detection

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	강좌소개및오리엔테이션 & Introduction	E	이슬			
2	Preliminaries - Math	E	이슬			
3	Data Preparation	E	이슬			
4	Finding Similar Items	E	이슬			
5	Locality-Sensitive Hashing	E	이슬			
6	Clustering	E	이슬			
7	Dimension Reduction	E	이슬			
8	중간고사	E	이슬			
9	Recommendation System	E	이슬			
10	Recommendation System	E	이슬			
11	Stream Data Analysis	E	이슬			
12	Frequent Itemsets Mining	E	이슬			
13	Link Analysis	E	이슬			
14	Graphs	E	이슬			
15	Anomaly Detection	E	이슬			
16	기말고사	E	이슬			

11. Other items of notification

2021년 2학기 전체 비대면 강의(주로 실시간 Zoom 강의).
중간고사 & 기말고사는 수강 인원이 적으면 대면으로 진행한다.

Data Structure

Course Name	Course type (credit/hours)	전필(3/3)	Course code	F039
	Target students Division/major/grade	소프트웨어학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(팔409) 목A(팔409)(팔409)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	Computer Programming
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Yared Z. Bekele (Software)			
	Office Room Number		Office phone Number		e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course introduces students to common data structures used in program design and development. It covers data structures such as stacks, queues, trees, graphs, etc. The various operations applied to such data structures will be studied. Moreover, mathematical ways of analyzing and comparing the performances of algorithms are included.

Objectives:
-> Understand the popular data structures used in software development
→ Analyze the computational complexities of algorithms
→ Understand typical algorithms used along with discussed data structures

2. Course Objectives

3. Class types and activities

The followings are included:
→ Lectures
→ Coding training (Lab session/coding session?)
→ Home works
→ Quizzes
Mode of learning (offline, online) recorded lectures,

4. Teaching Method

☑	lecture	☐	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑ e-class ☐ automatic recording system ☐ web-based assignment

☐ cyber lecture ☐ blended learning(combination of online and offline teaching)

☐ class behavior analyazing system ☐ others

6. Teaching Tools

☑ PBL(Problem Based Learning) ☐ CBL(Case Based Learning)

☐ TBL(Team Based Learning) ☐ others

7. Knowledge and ability required for taking this course

Knowledge of linear algebra would be a plus.
Self-studying skills
Basic English

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	16	10	
midterm exam	1	30	
final exam	1	40	
quiz			
presentation			
discussion			
homework	2~4	20	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Fundamentals of Data Structures in C, 2nd Edition	Ellis Horowitz,Sartaj Sahni andSusan Anderson-Freed	Silicon Press	2007

10. Class system and Class shedule

In this course, we will be covering the following topics:
→ Introduction to complexity analysis, which is used to analyze the efficiency of data structures/algorithms
→ Understand recursive algorithms
→ Basic data structures (Linked Lists, Stacks, Queues)
→ Trees
→ Graphs
→ Searching and Sorting algorithms

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Overview of DS	E	Yared Zerihun Bekele			
2	Time Complexity Analysis	E	Yared Zerihun Bekele			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Recursive algorithms	E	Yared Zerihun Bekele			
4	Arrays and Structures	E	Yared Zerihun Bekele			
5	Linked lists and operations	E	Yared Zerihun Bekele			
6	Stacks and queues	E	Yared Zerihun Bekele			
7	Tree: Basic Concepts and Traversals	E	Yared Zerihun Bekele			
8	Mid Exam	E	Yared Zerihun Bekele			
9	Binary Search Trees	E	Yared Zerihun Bekele			
10	Graph: Basic Concepts andTraversals	E	Yared Zerihun Bekele			
11	Graphs I	E	Yared Zerihun Bekele			
12	Graphs II	E	Yared Zerihun Bekele			
13	Sorting algorithms I and II	E	Yared Zerihun Bekele			
14	Polynomial functions/Matrix	E	Yared Zerihun Bekele			
15	Searching techniques	E	Yared Zerihun Bekele			
16	Final Exam	E	Yared Zerihun Bekele			

11. Other items of notification

Design Robotics in Architecture

Course Name	Course type (credit/hours)	전선(3/5)		Course code	E095
	Target students Division/major/grade	건축학과/3학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	금2(산811) 금3(산811) 금4(산811) 금5(산811) 금6(산811)(산811)		English Grade	A(100%English)
Reference to this course	Prerequisite courses	-			
	Related basic courses	-			
	Recommanded concurrent courses	-			
	Related advanced courses	-			

Instructor	Name (title/division)	이황 (부교수/공과대학 건축학과)			
	Office Room Number	산학협력원 716	Office phone Number	2493	e-mail	
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number	산학원 7층	Office phone Number		e-mail	ptk3917@gmail.com

1. Introduction

The discipline of architecture, including both research and practice, many professionals attempts to integrate technological advances of the fourth industrial revolution (robotics, drones, artificial intelligence, etc.) with building design. According to the broad breath of technology-driven evolution of architecture, this class explores new building form and fabrication with applications of robotics technologies and tools. This course is a lab-based class that allows only a small number of students (limited by a total of 15). Prior permission from the lecturer is required to get enrolled in the class.

2. Course Objectives

Robots include a variety of machineries (movable objects) that are designed and programmed to perform special tasks. Robotics is a cross-disciplinary field of study on the robots that associates design, engineering, and related computer technologies in an integrated terrain of scholarship. Architecture and robotics appear uncorrelated at a glance, but buildings are interactive systems working with movable components and human behavior. This course aims to encourage student to learn and pursue innovative outcomes of architecture, by combining robot technology on top of intellectual imaginations of building form and space.

3. Class types and activities

> The course is a lab-based class similar to architectural design studios. Students are teamed with one another to have three or four members each and tasked with given assignments and experiments.

4. Teaching Method

- [ ] lecture
- [V] team project(presentation and case studies)
- [V] designing and production
- [ ] others
- [ ] discussion and debate
- [V] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] TBL(Team Based Learning)
- [V] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

> Prerequisite: Architectural design, digital design.
> It is preferred to have basic knowledge on Python or C+ programming, but not necessarily required.
> Tools and materials will be distributed in the class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	12	25%	Attendency, Integrity, Positive attitude
midterm exam			
final exam			
quiz			
presentation	2	45%	Mid- (25%) and final (20%) review
discussion			
homework			
etc	1	20%	Final portfolio by team
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Ref.(web)	https://www.arduino.cc/			
Ref.(web)	https://create.arduino.cc/			
Ref.(web)	https://circuits.io/			
Ref.(web)	http://www.toptechboy.com/arduino-lessons/			
Ref.(web)	https://www.youtube.com/watch?v=aF8vagao6CM&list=PLzSm8l6JexHBEnqXuMMEXWurs10vXX-FY			
Ref.(web)	https://www.youtube.com/watch?v=VKJjzdWjZ4U			
Ref.	Make: 아두이노 DIY 프로젝트	키모 카르비넨 외	한빛 미디어	2016
Ref.	Arduino SKETCHES: Tools and Techniques for Programming Wizardry	James A. Langbridge	WILEY	2016

10. Class system and Class shedule

? The course consists of two major topics: (1) kinetic/responsive design experiments and (2) automated design and construction with a robot arm. To this end, students need to understand recent developments of engineered responsive architecture based on robot technologies and learn related mechanism to configure various types of movable building components. Specifically, students, by team, experiment with introductory robotics kits, including microcontroller, Arduino, sensors, gears, and motors. Knowledge learned from exercises are applied to the first team projects (kinetic architectural design).

? In the second phase of this course, students practice how and where to use industrial robot arms. Robot arms become an integral component of architectural fabrication, especially for the configuration of complex building geometry or building form with new materials. This course teaches students to simulate and practice automated building construction and design. Full-scale construction of the complex form of masonry walls will be explored with a 6-axis industrial robot arm.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Class introduction and orientation	E	이황			
2	(Thanksgiving holiday)	E	이황			
3	Project presentation	E	이황			
4	Mechanism and parametric design	E	이황			
5	Learning how to configure mechanism for architecture	E	이황			
6	Kinetic architecture design 1	E	이황			
7	Kinetic architecture design 2	E	이황			
8	(Mid-term exam period)	E	이황			
9	6 Axis Robot Arm- Orientation	E	이황			
10	6 Axis Robot Arm- Simulation	E	이황			
11	6 Axis Robot Arm- Working tests	E	이황			
12	Automated construction 1	E	이황			
13	Automated construction 2	E	이황			
14	Final team project 1	E	이황			
15	Final team project 2, Presentation	E	이황			
16	(Final exam period)	E	이황			

11. Other items of notification

- 감염병 유행 시 대응 온/오프라인 병행 수업.
- 출석: 아주대학교 학사규칙 엄수 (결석일이 수업일수의 1/4 이상일 경우 자동 F 처리됨).

Digital Circuit

Course Name	Course type (credit/hours)	전필(3/3)		Course code	F071
	Target students Division/major/grade	정보컴퓨터공학과/정보및컴퓨터공학전공 2학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(팔410) 목B(팔410)(팔410)		English Grade	A(100%English)
Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses	컴퓨터구조			

Instructor	Name (title/division)	Paul Rajib (조교수/소프트웨어융합대학 소프트웨어학과)			
	Office Room Number	팔달관 1011	Office phone Number		e-mail
	Office hours	화A/C/E교시, 목B/D/F	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course deals with principles and applications of digital systems.

The topics covered are Logic Gates and Boolean Algebra, Combinational Logic Circuits,

Flip-Flops and Related Devices, Digital Arithmetic: Operations and Circuits, Counters

and Registers, Integrated-Circuit Logic Families, MSI Logic Circuits, Interfacing with

the Analog World, and Memory Devices. There is a project assignment in this course to

enhance the practical skill of digital systems.

2. Course Objectives

◇ 교육목표

수강생들에게 디지털 회로의 기본 원리와 개념에 대한 이해와 동기를 부여하고 지식 응용, 공정 설계,
문제해결 방법등의 학습을 통해서 정보및컴퓨터 공학도가 해결해야 할 정보통신 관련 문제를 정확히 인식하여,
창의적인 문제해결 및 디지털 회로 설계 능력을 배양하고 디지털 회로 설계에 대한 흥미를 유발한다.

◇ 교과목 학습성과

① 디지털 회로 내에서 일어나는 제반 현상을 수학, 기초과학, 공학의 지식과 정보기술을 이용하여 해결할
   수 있다. <학습성과 1>
② 논리소자 및 IC칩 사이에서 벌어지는 다양한 현상을 이해하고 디지털 논리회로 콤포넌트 또는 시스템
   개발시 문제를 정의하고 모델링하여 비용 효율적으로 해결할 수 있다. <학습성과 3>
③ 현실적 제한 조건에 따라 디지털 시스템 전체의 구조, 이를 이루는 요소, 요소들간의 관계를 창의력을
   발휘하여 비용 효율적으로 설계할 수 있다. <학습성과 5>

3. Class types and activities

4. Teaching Method

☑	lecture	☑	discussion and debate
☑	team project(presentation and case studies)	☑	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

본 과목을 수강하기 위해서는 2진 시스템을 이해하고 있어야 한다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1회	20%	<학습성과 1> 디지털 회로 내에서 일어나는 제반현상을 수학, 기초과학, 공학의 지식과 정보기술을 이용하여 해결할 수 있는 능력을 중간고사로 평가한다.
final exam	1회	30%	<학습성과 5> 현실적 제한조건에 따라 디지털 시스템 전체의 구조, 이를 이루는 요소, 요소들간의 관계를 창의력을 발휘하여 비용 효율적으로 설계할 수 있는 능력을 기말고사로 평가한다.
quiz			
presentation			
discussion			
homework	4회	30%	<학습성과 3> 논리 소자 및 IC 칩 사이에서 벌어지는 다양한 현상을 이해하고 디지털 논리회로 콤포넌트 또는 시스템 개발 시 문제를 정의하고 모델링하여 비용 효율적으로 해결할수 있는 능력을 과제보고서 및 사례연구프로젝트 결과보고서로 평가한다.
etc	14회	20%	<학습성과 5> 현실적 제한조건에 따라 디지털 시스템 전체의 구조, 이를 이루는 요소, 요소들간의 관계를 창의력을 발휘하여 비용 효율적으로 설계할 수 있는 능력을 실습으로 평가한다.
study hours	주당 12시간		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Digital Systems: Principles and Applications, 11th ed.	Ronald J. Tocci etc.	Pearson	2011
Main	bCube-DLC를 활용한 논리회로 실험실습	CNDI 기술연구소	CNDI	2015

10. Class system and Class shedule

디지털 회로 설계 능력 배양을 위하여,

Logic Gates and Boolean Algebra => Combinational Logic Circuits => Flip-Flops and Related

Devices => Digital Arithmetic: Operations and Circuits => Counters and Registers =>

Integrated-Circuit Logic Families => MSI Logic Circuits => Memory Devices

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Logic Gates and Boolean Algebra, 기본실습		Paul Rajib	강의, 실습	중간지필평가/과제평가	
2	Combinational Logic Circuits, 디지털 논리회로 실습장비 소개		Paul Rajib	강의, 실습	중간지필평가/과제평가	
3	– Flip-Flops and Related Devices 1 –Latchs, Flip-Flops, Timing Considerations, Applications, Synchronization, 논리 게이트 실습		Paul Rajib	강의, 실습	중간지필평가/과제평가	
4	– Flip-Flops and Related Devices 2 –Shift Registers, Schmitt-Trigger Devices, One-Shot, Clock Generator Circuits, 가산기/감산기 실습		Paul Rajib	강의, 실습	중간지필평가/과제평가	
5	– Digital Arithmetic: Operations and Circuits –Addition, Subtraction, Multiplication, Division, BCD Addition, Arithmetic Circuits, Parallel Binary Adders, IC Parallel Adder, 2's-Complement System, BCD Adder, ALU ICs, 비교기 실습		Paul Rajib	강의, 실습	중간지필평가/과제평가	
6	– Counters and Registers 1 –Asynchronous Counters, Synchronous Counters, Presettable Counters, BCD Counters, 인코더/디코더 실습		Paul Rajib	강의, 실습	기말지필평가/과제평가	
7	– Counters and Registers 2 – IC Registers, 멀티플렉서/디멀티플렉서 실습		Paul Rajib	강의, 실습	기말지필평가/과제평가	
8	– 중간 고사 –		Paul Rajib	지필평가		
9	– MSI Logic Circuits 1 –Decoders, BCD-to-7-Segment Decoder/Drivers, Encoders, MUX/DEMUX, 7-세그먼트 디코더 실습		Paul Rajib	강의, 실습	기말지필평가/과제평가	
10	– MSI Logic Circuits 2 –Magnitude Comparator, Code Converters, Data Busing, Data Bus Operation, 코드 변환기 실습		Paul Rajib	강의, 실습	기말지필평가/과제평가	
11	– Memory Devices 1 –Memory Technology, General Memory Operations, ROMs, SRAM, 병렬 가산기 실습		Paul Rajib	강의, 실습	기말지필평가/과제평가	

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
12	- Memory Devices 2 -DRAM, Expanding Word Size and Capacity, Troubleshooting Memory Systems, Latch&FF 실습		Paul Rajib	강의, 실습	기말지필평가/과제평가	
13	- Case Studies I, 레지스터 실습		Paul Rajib	발표, 실습	발표평가/과제평가	
14	- Case Studies II, 동기식 카운터 실습		Paul Rajib	발표, 실습	발표평가/과제평가	
15	- Case Studies III, 비동기식 카운터 실습		Paul Rajib	발표, 실습	발표평가/과제평가	
16	- 기말 고사 -		Paul Rajib	지필평가		

11. Other items of notification

사례연구 설계 프로젝트를 수행하지 않은 학생은 F로 평가한다.

Electricity and Magnetism 1

Course Name	Course type (credit/hours)	전필(3/3)		Course code	G028
	Target students Division/major/grade	자연과학부/2학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	수B(성337) 금B(성337)(성337)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	물리학2
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)			이재웅 (부교수/자연과학대학 물리학과)	
	Office Room Number	원천관409	Office phone Number	2619	e-mail
	Office hours		Homepage address	https://sites.google.com/view/jaeunglee/home	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

Electrodynamics will treat electric and magnetic phenomena and electromagnetic (EM) waves, which can be basic tool to understand various phenomena in optics, solid-state physics, plasma physics and electrical engineering. Basic concept and laws of electromagnetism will be studied during two semesters. In this (first) semester, students will study basic concept of electrodynamics particularly focusing on electrostatics, magnetostatics and related phenomena in matters.

2. Course Objectives

This course is aiming for providing basic knowledge on electromagnetic phenomena.

3. Class types and activities

This course mainly consists of three-hour lectures per week and homework.
An offline class will be preferred. The class can be changed to online (Recording and real-time live lecture) depending on the situation.
Coursework will be evaluated by offline exams, homework, and attendance.

4. Teaching Method

☑ lecture	☐ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☑ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

Basic mathematical technique including differential and integral calculus will be required.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	
midterm exam	1회	40%	
final exam	1회	40%	
quiz			
presentation			
discussion			
homework		10%	
etc			
study hours	8~10 시간		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Introduction to Electrodynamics (4th edition)	D. J. Griffiths	Pearson	2013
Main	Introduction to Electrodynamics (4th edition, new international edition)	D. J. Griffiths	Pearson	2013
Ref.	Classical electrodynamics	J. D. Jackson	Wiley	2007

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction, Vector analysis	K/E	이재웅	대면 원칙		
2	Vector analysis	K/E	이재웅	대면 원칙		
3	Electrostatics 1	K/E	이재웅	대면 원칙		
4	Electrostatics 2	K/E	이재웅	대면 원칙		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Potentials 1	K/E	이재웅	대면 원칙		
6	Potentials 2	K/E	이재웅	대면 원칙		
7	Potentials 3	K/E	이재웅	대면 원칙		
8	Mid-exam (Offline)	K/E	이재웅	중간고사	대면 원칙	
9	Electric fields in matter 1	K/E	이재웅	대면 원칙		
10	Electric fields in matter 2	K/E	이재웅	대면 원칙		
11	Magnetostatistics 1	K/E	이재웅	대면 원칙		
12	Magnetostatistics 2	K/E	이재웅	대면 원칙		
13	Magnetic fields in matter 1	K/E	이재웅	대면 원칙		
14	Magnetic fields in matter 2	K/E	이재웅	대면 원칙		
15	Overview	K/E	이재웅	대면 원칙		
16	Final exam (Offline)	K/E	이재웅	기말고사	대면 원칙	

11. Other items of notification

English Communication for English Majors

Course Name	Course type (credit/hours)	전필(3/3)		Course code	J058
	Target students Division/major/grade	영어영문학과/Freshmen		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(다311) 목D(다311)(다311)		English Grade	A(100%English)
Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)		Kevin Hawthorne (조교수/대학 다산학부대학)			
	Office Room Number	성호관420호	Office phone Number	2830	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

2. Course Objectives

English Communication for English Majors (ECEM) is designed for students who have a high-intermediate level of English or above. The focus of this course is on improving students abilities to have meaningful discussions about serious topics. A wide variety of readings provide useful language examples, and stimulate interest in the topics and themes. Students are expected to actively participate in class small-group discussions, debates, and presentations based on the issues raised in the class material

3. Class types and activities

Speaking lessons include pair work, small group discussions, class discussions and task-based communicative activities. There are three main speaking assignments: A group presentation, a special seminar, and an impromptu debate.

4. Teaching Method

☑ lecture		☑ discussion and debate
☑ team project(presentation and case studies)		☐ experiments(role-playing,etc)
☐ designing and production		☐ on-site learning(on-site training)
☐ others		

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

A high-intermediate to advanced level of English is assumed for students of ECEM

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	
midterm exam		15%	
final exam		15%	
quiz			
presentation		30%	
discussion		10%	
homework			
etc		20%	
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Sub	Small Group Discussion Topics for Korean Students, A Modern Approach to Fluency in English,	Jack Martire	PNU Press	2013
Main	Instructor will provide additional materials			

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction and Syllabus		Kevin Hawthorne	face-to-face		
2	Issues 1 & 2		Kevin Hawthorne	face-to-face		
3	Issues 3 & 4		Kevin Hawthorne	face-to-face		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Issues 5 & 6		Kevin Hawthorne	face-to-face		
5	Group Presentations		Kevin Hawthorne	face-to-face		
6	Issues 7 & 8		Kevin Hawthorne	face-to-face		
7	Issue 9 & midterm review		Kevin Hawthorne	face-to-face		
8	Midterm Exam		Kevin Hawthorne	face-to-face		
9	Issues 10 & 11		Kevin Hawthorne	face-to-face		
10	Issues 12 & 13		Kevin Hawthorne	face-to-face		
11	Issues 14 & 15		Kevin Hawthorne	face-to-face		
12	Individual Seminars		Kevin Hawthorne	face-to-face		
13	Issues 16 & 17		Kevin Hawthorne	face-to-face		
14	Issues 18 & review		Kevin Hawthorne	face-to-face		
15	Impromptu Debates (Oral Test)		Kevin Hawthorne	face-to-face		
16	Final Exam		Kevin Hawthorne	face-to-face		

11. Other items of notification

English Communication for English Majors (E.C.E.M.) will be taught face-to-face if Covid-19 conditions allow. Be prepared to attend classes on campus in the classroom. However, if conditions change, it may be necessary to deliver part or all of the course online. Therefore, please also be prepared to participate online using Zoom if this becomes necessary.

English Communication for English Majors

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>전필(3/3)</td><td>Course code</td><td>J059</td></tr>
<tr><td>Target students Division/major/grade</td><td>영어영문학과/Freshmen</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>화D(다105) 목C(다105)(다105)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td></td><td></td><td></td></tr>
<tr><td>Related basic courses</td><td></td><td></td><td></td></tr>
<tr><td>Recommanded concurrent courses</td><td></td><td></td><td></td></tr>
<tr><td>Related advanced courses</td><td></td><td></td><td></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="5">Brad Crawford (조교수/대학 다산학부대학)</td></tr>
<tr><td>Office Room Number</td><td>다산관 215-1</td><td>Office phone Number</td><td>2816</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td></td><td>Homepage address</td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

2. Course Objectives

English Communication for English Majors (ECEM) is designed for students who have completed English Conversation 2. The focus of this course is on improving students' abilities to have meaningful discussions about serious topics. A wide variety of readings and listening materials provide useful language examples, and stimulate interest in the topics and themes. Students are expected to actively participate in class small-group discussions, debates, and presentations based on the issues raised in the class material

3. Class types and activities

4. Teaching Method

- ☐ lecture
- ☐ team project(presentation and case studies)
- ☐ designing and production
- ☐ others
- ☐ discussion and debate
- ☐ experiments(role-playing,etc)
- ☐ on-site learning(on-site training)

5. Support Systems in Use

- ☐ e-class
- ☐ cyber lecture
- ☐ class behavior analyazing system
- ☐ automatic recording system
- ☐ blended learning(combination of online and offline teaching)
- ☐ others
- ☐ web-based assignment

6. Teaching Tools

- ☐ PBL(Problem Based Learning)
- ☐ TBL(Team Based Learning)
- ☐ CBL(Case Based Learning)
- ☐ others

7. Knowledge and ability required for taking this course

A high-intermediate to advanced level of English is assumed for students of ECEM

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	
midterm exam		15%	
final exam		15%	
quiz			
presentation		30%	
discussion		10%	
homework			
etc		20%	
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Instructor will provide additional materials			
	What do you think 1	Duane Voorhees	Lis Korea	

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction and Syllabus		Brad Crawford	lecture class-work		
2	Issues 1 & 2		Brad Crawford	lecture class-work		
3	Issues 3 & 4		Brad Crawford	lecture class-work		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Issues 5 & 6		Brad Crawford	lecture class-work		
5	Group Presentations		Brad Crawford	lecture class-work		
6	Issues 7 & 8		Brad Crawford	lecture class-work		
7	Issue 9 & midterm review		Brad Crawford	lecture class-work		
8	Midterm Exam		Brad Crawford	lecture class-work		
9	Issues 10 & 11		Brad Crawford	lecture class-work		
10	Issues 12 & 13		Brad Crawford	lecture class-work		
11	Issues 14 & 15		Brad Crawford	lecture class-work		
12	Individual Presentations		Brad Crawford	lecture class-work		
13	Issues 16 & 17		Brad Crawford	lecture class-work		
14	Issues 18 & review		Brad Crawford	lecture class-work		
15	Impromptu Debates (Oral Test)		Brad Crawford	lecture class-work		
16	Final Exam		Brad Crawford	wirryen exam		

11. Other items of notification

English Composition for English Majors

Course Name	Course type (credit/hours)	전필(3/3)		Course code	J056
	Target students Division/major/grade	영어영문학과/2학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(다205-A) 목D(다205-A)(다205-A)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Philip Chivers (조교수/대학 다산학부대학)			
	Office Room Number	성호관 419	Office phone Number	031-219-2831	e-mail	
	Office hours	Mon B 10.30-11.45, Weds B 10.30-11.45, Thurs B 10.30-11.45	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail	philip@ajou.ac.kr

1. Introduction

Composition 1 is designed to help students write effective paragraphs and produce short essays. The course focuses on writing fundamentals such as grammar, punctuation, sentence construction, clarity, and coherence. We will look at paragraph structure and organization, leading to a short essay. In class, we will study different types of paragraphs, which may include narrative, descriptive, comparison, and cause-effect. With skills learnt in this course, students will be able to write an academic paragraph and essays. The course is recommended for students preparing for the TOEFL, TOEIC and IELTS writing tests.

2. Course Objectives

3. Class types and activities

lecture, groupwork, in-class writing

4. Teaching Method

| V | lecture | V | discussion and debate |

| V | team project(presentation and case studies) | | experiments(role-playing,etc) |

| | designing and production | | on-site learning(on-site training) |

| V | others (This course will involve individual and team writing activities. There will be group work to

5. Support Systems in Use

| V | e-class | | automatic recording system | | web-based assignment |

| | cyber lecture | | blended learning(combination of online and offline teaching) |

| | class behavior analyazing system | | others |

6. Teaching Tools

| | PBL(Problem Based Learning) | | CBL(Case Based Learning) |

| | TBL(Team Based Learning) | V | others (As this class is writing based, there will be a lot |

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

* We often use Google docs. Make sure that you are prepared to access Google apps.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	minus 2 points for each no-show and minus 1 point for LATE. 3 LATE= 1 no-show
midterm exam			
final exam	1	20%	1 short essay (individual)
quiz			
presentation			
discussion			
homework	4	60%	1 worksheet answering paragraph structure questions + 1 paragraphs + 1 short essays (individual) + 1 team essay
etc		10%	daily grades, participation and others
study hours	4-6 hrs		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Etc	PPT files available in class	N/A	N/A	2022
Main	Great Writing 3 Fifth Edition	Keith S. Folse et al	Cengage Learning	2019

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to academic writing	E	Philip Chivers			
2	Paragraph writing, formatting, topic sentences, complex sentences, writing process	E	Philip Chivers			
3	Writing mechanics, Unit 1	E	Philip Chivers			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Unit 2	E	Philip Chivers			
5	Unit 3	E	Philip Chivers			
6	Unit 4: Descriptive Essay	E	Philip Chivers			
7	Unit 4: Descriptive Essay	E	Philip Chivers			
8	Mid-Term Exam Descriptive Essay	E	Philip Chivers			
9	Unit 5: Comparison Essay	E	Philip Chivers			
10	Unit 5: Comparison Essay	E	Philip Chivers			
11	Unit 5: Comparison Essay	E	Philip Chivers			
12	Unit 6: Cause and Effect Essay	E	Philip Chivers			
13	Unit 6: Cause and Effect EssayConferences	E	Philip Chivers			
14	Unit 6: Cause and Effect Essay	E	Philip Chivers			
15	Unit 7: Classification Essay	E	Philip Chivers			
16	Final Exam Cause and Effect Essay	E	Philip Chivers			

11. Other items of notification

English Composition for English Majors

Course Name	Course type (credit/hours)	전필(3/3)	Course code	J057
	Target students Division/major/grade	/	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화A(다205-A) 금A(다205-A)(다205-A)	English Grade	A(100%English)
Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)				
	Office Room Number		Office phone Number	3243	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

2. Course Objectives

3. Class types and activities

4. Teaching Method

- ☐ lecture
- ☐ team project(presentation and case studies)
- ☐ designing and production
- ☐ others
- ☐ discussion and debate
- ☐ experiments(role-playing,etc)
- ☐ on-site learning(on-site training)

5. Support Systems in Use

- ☐ e-class
- ☐ cyber lecture
- ☐ class behavior analyazing system
- ☐ automatic recording system
- ☐ blended learning(combination of online and offline teaching)
- ☐ others
- ☐ web-based assignment

6. Teaching Tools

- ☐ PBL(Problem Based Learning)
- ☐ TBL(Team Based Learning)
- ☐ CBL(Case Based Learning)
- ☐ others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam			
final exam			
quiz			
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
No Data				

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
No Data						

11. Other items of notification

English Grammar

Course Name	Course type (credit/hours)	전선(3/3)	Course code	J060
	Target students Division/major/grade	영어영문학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(다205-B) 수C(다205-B)(다205-B)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	Fundamentals of English Structure
	Recommanded concurrent courses	
	Related advanced courses	English Syntax

Instructor	Name (title/division)	조재형 (교수/인문대학 영어영문학과)			
	Office Room Number	다산관 412	Office phone Number	2823	e-mail
	Office hours	Mon, Wed 14:00-15:00	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

The purpose of this course is to help students understand English grammr and develop their reading and writing skills in English. This course also aims to present to students some important facts of English grammar, some of which have been known for a long time, some of which are products of the tranformational revolution. In addition, this course introduces students to a linguistic, that is, scientific way of thinking about grammar.

2. Course Objectives

3. Class types and activities

This is mainly a lecture based course, and students are expected to explain sentence completion type and error identification type questions in exercises.

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [ ] PBL(Problem Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	
midterm exam	1	35	
final exam	1	35	
quiz	2	20	
presentation		5	
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Exploring English Grammar, 4th Edition	Cho, Jai-Hyoung	Ajou Univ. Press	2017
Sub	English Syntax: From Word to Discourse	Berk	Oxford Univ. Press	1999
Sub	Exploring Grammar in Context	Carter, Hughes	Cambridge Univ. Press	2000
Sub	Practical English Usage	Swan, M.	Oxofrd Univ. Press	1995
Sub	Understanding and Using English Grammar	Azar, B.S.	Pearson Education	2002

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Prescriptive vs. Descriptive Grammar	E	조재형			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Clause Structures	E	조재형			
3	Basic Sentence Structure	E	조재형			
4	Tenses (1)	E	조재형			
5	Tenses (II)	E	조재형			
6	Phrases (I)	E	조재형			
7	Phrases (II) / Quiz1	E	조재형	대면수업	퀴즈1지필평가	
8	Mid-term Exam	E	조재형	대면수업	중간지필평가	
9	Special Issues in English Struture	E	조재형			
10	Infinitives vs. Gerunds	E	조재형			
11	Infinitive Constructions	E	조재형			
12	Clauses	E	조재형			
13	Pronouns / Subject-Verb Agreement	E	조재형			
14	Pronoun and Antecedent Agreement	E	조재형			
15	Adverbials / Modifiers / Quiz2	E	조재형	대면수업	퀴즈2지필평가	
16	Final Exam	E	조재형	대면수업	기말지필평가	

11. Other items of notification

Entrepreneurship and Management

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I058
	Target students Division/major/grade	경영학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화F(다307) 목E(다307)(다307)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	윤천석(Chun Suk Yoon) (부교수/경영대학 글로벌경영학과)				
	Office Room Number	다산관306-1	Office phone Number	3689	e-mail	
	Office hours	Tue 15:00-19:00		Homepage address		
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	holli21@ajou.ac.kr

1. Introduction

Business is in short all about winning the hearts of people. The key things in entrepreneurship are money and people. Some business gurus add meaningfulness and spiritual growth. Do you think that you fully understand what business, entrepreneurship, management, and managers are about? When you take this course, you will most likely realize that your current knowledge and understanding of those concepts are incomplete. Socrates said two thousand years ago "know yourself." He meant that going back to basics and understanding the true nature or essence of all things are often neglected in peoples life. People are too busy taking care of daily chores and tasks without thinking much. Things in life become routine. This course is designed for students to learn, reinforce or rethink the lasting fundamentals of business principles. Class participation is strongly recommended. Entrepreneurship is imperative in a knowledge-centered society. When you are knowledgeable, the likelihood of having a better life gets higher.

This class will scrutinize some Asian business people like Lee Kun Hee of Samsung Group, Inamori Kazuo of Kyocera Group, and Kim Woo Jung of Daewoo Group.

2. Course Objectives

In the era of knowledge economy, this course intends to provide students with the holistic concepts of entrepreneurship and business management. Understanding unchanging theories and concepts of business and entrepreneurship so far will help students be audacious in their future challegnes no matter where they choose to work for.

Students will be able to
Define and understand key business concepts and their consequences
Discuss key business principles and theories with business professionals
Prioritize different business concepts and apply them to their individual lives and career
Learn how enterprises work and survive in the competitive business world

3. Class types and activities

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [V] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [V] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] TBL(Team Based Learning)
- [V] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	Attendance
midterm exam		40	Mid-term exam
final exam		40	Final exam
quiz			
presentation			
discussion			
homework		10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Sub	Matsushita's business principles	PHP	PHP	
Main	Management	Peter Drucker	Harper Business	2008
Ref.(web)	https://www.youtube.com/watch?v=waN94gYwbjQ&list=PLrCHWK77IRERLyZJtphldybn-rVORZgkF	Peter Drucker		
Ref.(web)	https://www.youtube.com/watch?v=08257W8sdNs&t=551s	JYP		
Ref.	Moive "The founder"			

10. Class system and Class shedule

-Peter Druckers book of management will be our guiding light.
-Successful business practitioners will be frequently summoned for verifying Druckers assertions.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Class orientation	E	윤천석(Chun Suk Yoon)			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	1. Introduction: Managment and management defined. 2. Management as a social function and liberal art 3. The dimension of management & Ch. 27 The spirtit of performance	E	윤천석(Chun Suk Yoon)			
3	Part 1: Management;s new reality	E	윤천석(Chun Suk Yoon)			
4	Part 2: Business performance/Lee Gun Hee/Son Jung Hee/Steve Jobs	E	윤천석(Chun Suk Yoon)			
5	Entrepreneurship and startup business	E	윤천석(Chun Suk Yoon)			
6	Motivating people	E	윤천석(Chun Suk Yoon)			
7	Part 3: Performance in service institutions	E	윤천석(Chun Suk Yoon)			
8	Midterm exam	E	윤천석(Chun Suk Yoon)			
9	Part 4: Produective work & achieving worker, Charlie Munger scripts	E	윤천석(Chun Suk Yoon)			
10	Part 6: Manager's work and jobs	E	윤천석(Chun Suk Yoon)			
11	Part 7: Managerial skills/Sima Qian money makers	E	윤천석(Chun Suk Yoon)			
12	Part 8: Innovation & entrepreneurship	E	윤천석(Chun Suk Yoon)			
13	Part 9: Managerial organization	E	윤천석(Chun Suk Yoon)			
14	Part 10: New demands on the indiviidual	E	윤천석(Chun Suk Yoon)			
15	Gobalism and Glocalization	E	윤천석(Chun Suk Yoon)			
16	Final exam	E	윤천석(Chun Suk Yoon)			

11. Other items of notification

Entrepreneurship and Management

Course Name	Course type (credit/hours)	전필(3/3)		Course code	I059
	Target students Division/major/grade	경영학과/1학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(다307) 목A(다307)(다307)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	윤천석(Chun Suk Yoon) (부교수/경영대학 글로벌경영학과)			
	Office Room Number	다산관521-1	Office phone Number	3689	e-mail	
	Office hours	Tue 15:00-19:00	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail	holli21@ajou.ac.kr

1. Introduction

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Discuss key business principles and theories with business professionals
Prioritize different business concepts and apply them to their individual lives and career
Learn how enterprises work and survive in the competitive business world

3. Class types and activities

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [V] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [V] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] TBL(Team Based Learning)
- [V] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	Attendance
midterm exam		40	Mid-term exam
final exam		40	Final exam
quiz			
presentation			
discussion			
homework		10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Sub	Matsushita's business principles	PHP	PHP	
Main	Management	Peter Drucker	Harper Business	2008
Ref.(web)	https://www.youtube.com/watch?v=waN94gYwbjQ&list=PLrCHWK77lRERLyZJtphldybn-rVORZgkF	Peter Drucker		
Ref.(web)	https://www.youtube.com/watch?v=08257W8sdNs&t=551s	JYP		
Ref.	Moive "The founder"			

10. Class system and Class shedule

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-Successful business practitioners will be frequently summoned for verifying Druckers assertions.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Class orientation	E	윤천석(Chun Suk Yoon)			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	1. Introduction: Managment and management defined. 2. Management as a social function and liberal art 3. The dimension of management & Ch. 27 The spirtit of performance	E	윤천석(Chun Suk Yoon)			
3	Part 1: Management;s new reality	E	윤천석(Chun Suk Yoon)			
4	Part 2: Business performance/Lee Gun Hee/Son Jung Hee/Steve Jobs	E	윤천석(Chun Suk Yoon)			
5	Entrepreneurship and startup business	E	윤천석(Chun Suk Yoon)			
6	Motivating people	E	윤천석(Chun Suk Yoon)			
7	Part 3: Performance in service institutions	E	윤천석(Chun Suk Yoon)			
8	Midterm exam	E	윤천석(Chun Suk Yoon)			
9	Part 4: Produective work & achieving worker, Charlie Munger scripts	E	윤천석(Chun Suk Yoon)			
10	Part 6: Manager's work and jobs	E	윤천석(Chun Suk Yoon)			
11	Part 7: Managerial skills/Sima Qian money makers	E	윤천석(Chun Suk Yoon)			
12	Part 8: Innovation & entrepreneurship	E	윤천석(Chun Suk Yoon)			
13	Part 9: Managerial organization	E	윤천석(Chun Suk Yoon)			
14	Part 10: New demands on the indiviidual	E	윤천석(Chun Suk Yoon)			
15	Gobalism and Glocalization	E	윤천석(Chun Suk Yoon)			
16	Final exam	E	윤천석(Chun Suk Yoon)			

11. Other items of notification

European Modern History

Course Name	Course type (credit/hours)	전선(3/3)	Course code	J086
	Target students Division/major/grade	사학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화D(다108) 목C(다108)(다108)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)			김서현	
	Office Room Number	다산관 409	Office phone Number	2851	e-mail
	Office hours	목요일 1:30 - 4:00	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This class covers early modern to modern periods of Western history (roughly from the 16th century to the First World War.) Different interpretations are possible about this time period, but many would agree that a modern sense of "self" began to form in the west as Europe underwent a whirlwind of religious reformations and religious wars in the 16th century. New concepts that are familiar to us now?nation, citizen, rights, to name just a few?began to appear. At the same time, existing concepts such as nature and God began to transform, as individuals began to view themselves in new ways and their relationships to their environments and religions changed accordingly. In this class, we are not going to go in chronological order. Rather, we will focus on a handful of concepts that played important roles in early modern and modern history, and ask the following questions: how was each concept interpreted in diverse ways, and how were these interpretations used for political and social purposes? What actual historical events did each concept trigger? How did each concept transform over 3-4 centuries? There are many concepts that are worth examining, for this class will focus on Nature, God, Nation, and History, and spend 3 weeks per concept. *The instructor may change specific topic and/or their order.

2. Course Objectives

3. Class types and activities

This class focuses on 4 themes: man and nature, man and faith, man and nation, and man and history. We will spend 3 weeks on each theme.
For each theme, we will spend 1 week per century (16/17th century, 18th century, 19th century.) For example, for the theme of "Man and History," we could cover in the first week the "Quarrel between the Ancients and the Moderns" (17C), then in the next week "History as progress" (18/19C), and in the final week "Raciology/imperialism and the Eurocentric history" (19C).

This means that we spend 1 week, or 2 classes, for each century within a theme. The first class will be in lecture format?instructor will use PPT slides to talk about the general background history of the given period. The second class will be in discussion format, where students will discuss in small and big groups about the historical source readings that they have read for that class. Instructor will provide some reading questions to start off the group discussions, but from these questions and students' opinions on them, hopefully more organic discussions will emerge.

Students will submit total 3 assignments and a final paper. The assignments are due on Oct.8, Nov.5, and Nov.26, and the final paper on Dec. 23.
Assignment: Every time we wrap up one of the 4 big themes?so roughly in every 3-4 weeks?students will write a short paper (1.5-2 pages, double-spaced) on that theme. Students will use the readings that they have done over three weeks and what they talked about in class discussions to organize their thoughts in writing.
Final paper: Topic and detailed instruction will be given after the midterm period.
There is no midterm exam nor final exam.

4. Teaching Method

☑ lecture	☑ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

영어수업으로서 영어듣기 능력이 요구됩니다. 하지만 한국어도 섞어 진행될 예정이며, 모든 읽는 자료는 영어, 한국어 두 버전 모두 마련됩니다.
과제 및 기말페이퍼, 수업 내 토론은 영어, 한국어 모두 가능합니다.

As a class conducted in English language, English listening skill is required. However, instructor will conduct parts of class in Korean as well.
All reading materials will be provided in both English and Korean languages, so students are welcome to read in whichever language that they feel comfortable with.
Assignments and final paper can be written in either language.
In-class discussions can be conducted in either language, depending on what discussion group members decide.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	26	10	
midterm exam			
final exam	1	30	기말고사가 아닌 기말보고서입니다.
quiz			
presentation			
discussion	12	20	
homework	3	40	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	모든 읽기 자료는 수업담당교수가 마련합니다. All reading materials will be provided by instructor.			

10. Class system and Class shedule

"수업의 형태와 진행방식" 과 "진도계획" 섹션을 참고하세요.

See "Course format and method" and "Course plan" sections.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	수업 소개 / Course introduction	K/E	김서현			
2	인간과 자연, 16-17C/ Man and nature	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
3	인간과 자연, 18C / Man and nature	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
4	인간과 자연, 19C / Man and nature	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
5	인간과 자연, 19C / Man and nature	K/E	김서현	Lecture & Discussion	출석, 토론, 과제 / Attendance, discussion, assignment	과제1 / Assignment1 (10/8)
6	인간과 신, 16-17C / Man and faith	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
7	인간과 신, 18C / Man and faith	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
8	중간고사 기간 / Midterm period		김서현			
9	인간과 신, 19C / Man and faith	K/E	김서현	Lecture & Discussion	출석, 토론, 과제 / Attendance, discussion, assignment	과제2 / Assignment2 (11/5)
10	인간과 국가, 17C / Man and nation	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
11	인간과 국가, 18C / Man and nation	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
12	인간과 국가, 19C / Man and nation	K/E	김서현	Lecture & Discussion	출석, 토론, 과제 / Attendance, discussion, assignment	과제3 / Assignment3 (11/26)
13	인간과 역사, 17C / Man and history	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
14	인간과 역사, 18C / Man and history	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
15	인간과 역사, 19C / Man and history	K/E	김서현	Lecture & Discussion	출석, 토론 / Attendance, discussion	
16	기말고사 기간 / Finals period		김서현		보고서 / Final paper	보고서 / Final paper (12/23)

11. Other items of notification

Financial Management

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I027
	Target students Division/major/grade	경영학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(다B106) 수A(다B106)(다B106)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		김주현 (조교수/경영대학 경영학과)		
	Office Room Number	다산관 505-2	Office phone Number	3688	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This is an introductory course in corporate financial management. Students will become familiar with the various concepts and tools used to manage financial management issues within a framework of the "law of one price".
Topics will include, but will not necessarily be limited to, interest rates and the time value of money, valuing projects and firms, and risk and return.

2. Course Objectives

3. Class types and activities

Classes will be held offline and be lecture-based.
Assignments and other class related announcements will be posted on Ajou Bb and/or through email.
There will be 2 assignments during the semester, in which you will handle real financial data.

4. Teaching Method

[V] lecture	[ ] discussion and debate
[ ] team project(presentation and case studies)	[ ] experiments(role-playing,etc)
[ ] designing and production	[ ] on-site learning(on-site training)
[ ] others	

5. Support Systems in Use

[V] e-class	[ ] automatic recording system	[ ] web-based assignment
[ ] cyber lecture	[ ] blended learning(combination of online and offline teaching)	
[ ] class behavior analyazing system	[ ] others	

6. Teaching Tools

[ ] PBL(Problem Based Learning)	[ ] CBL(Case Based Learning)
[ ] TBL(Team Based Learning)	[ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		30	
final exam		30	
quiz			
presentation			
discussion			
homework		30	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Etc	Texas Instruments BA II Plus Calculator			
Main	Corporate Finance: The Core, 5th Edition	Berk & DeMarzo	Pearson	2020

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction, the Corporation	E	김주현	Lecture		Chapter1
2	Financial Statement Analysis	E	김주현	Lecture		Chapter2
3	Financial Decision Making and the Law of One Price	E	김주현	Lecture		Chapter3
4	Time Value of Money	E	김주현	Lecture		Chapter4

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Interest Rates	E	김주현	Lecture		Chapter5
6	Valuing Bonds	E	김주현	Lecture		Chapter6
7	Investment Decision Rules	E	김주현	Lecture		Chapter7
8	Midterm Exam	E	김주현			
9	Fundamentals of Capital Budgeting	E	김주현	Lecture		Chapter8
10	Valuing Stocks	E	김주현	Lecture		Chapter9
11	Capital Markets and the Pricing of Risk	E	김주현	Lecture		Chapter10
12	Optimal Portfolio Choice	E	김주현	Lecture		Chapter11
13	The Capital Asset Pricing Model	E	김주현	Lecture		Chapter11
14	Estimating the Cost of Capital	E	김주현	Lecture		Chapters 12
15	Investor Behavior and Capital Market Efficiency	E	김주현	Lecture		Chapter13
16	Final Exam	E	김주현			

11. Other items of notification

? The TI BA II Plus financial calculator is recommended, but not required. If you choose a non-financial calculator, you may be required to calculate PV and NPV without the aid of TVM or NPV functions on a financial calculator.
? There will be 2 assignments throughout the semester. Unless specified, each work must be original and individually done.
?Plagiarism or academic dishonesty will not be tolerated.
?In line with Article 26 of Undergraduate Operational Regulation of Ajou University, students missing more than 1/4 of classes will be graded an F. The same article specifies which circumstances can be excepted.
?There will be penalties for assignments that are handed in late.
?All re-grading requests must be made within one week of receiving the score, in written form. On submission, the entire exam will be re-graded, and the resulting score will be final.
?Checking the blackboard and email for assignments and class-related communications will be the student's responsibility. Please register a valid email address in the system.
?Notes (PowerPoint slides and other material) provided are for use in the course only. They are not to be reproduced or redistributed outside the class.
?Allowances for personal schedules (plane tickets etc.) will not be made. It is the student's responsibility to be aware of the academic semester dates and plan accordingly.

Financial econometrics

Course Name	Course type (credit/hours)	전선(3/3)	Course code	I097
	Target students Division/major/grade	금융공학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(다406) 목D(다406)(다406)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	Calculus 1, 2, Elementary Financial Statistics		
	Related basic courses	Calculus, Introduction to Statistics		
	Recommanded concurrent courses	Calculus 2, Advanced Financial Statistics		
	Related advanced courses	Mathematical Statistics, Econometrics, Data Analysis		

Instructor	Name (title/division)	유재인 (부교수/경영대학 금융공학과)				
	Office Room Number	다산관524호	Office phone Number	3670	e-mail	
	Office hours	TBA		Homepage address		
Teaching Assistant	Name (title/division)					
	Office Room Number	Dasan408	Office phone Number		e-mail	

1. Introduction

The objective of this class is to learn how to present statistical data in such a way that the important characteristics of the data could be easily understood. Our aim is to survey some of the methods employed in the summarization of numerical information. The correct analysis is typically problem specific, depending on the characteristics of the data and the purpose of analysis. We also aim to learn theories in econometric analysis, and obtain practical knowledge in handling statistical package.

2. Course Objectives

This course is an introduction to the statistical and econometrics methods which are used both in the direct solution of managerial problems and as foundations for more advanced analytical methods. It satisfies the quantitative methods requirements of the common body of knowledge for business major.
데이터분석기초에서는 통계 자료의 기본적 특성을 파악하는 방법을 배웁니다.
특히 2021학년도 2학기에는 다양한 자료를 다각도에서 추출하고, 분석하는 방법을 중점적으로 배웁니다.
나아가, 선형, 비선형 회귀 분석 방법을 배우며, 자료의 특성에 따라 고려해야할 점을 후반부에 배웁니다.

3. Class types and activities

The class is divided into two parts: learning econometric theories and tutorials. More specific schedules about classes and tutorials will be posted.

In Fall, 2023, the class will include statistical analysis, probability, and econometric analytical tools. You will have 4 problem sets (2 before midterm and 2 before final) and they will help you prepare for the exam. In the end of the semester, you will see some lab exercises to complete your term paper.

4. Teaching Method

- [V] lecture
- [V] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [V] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [V] cyber lecture
- [ ] class behavior analyazing system
- [V] automatic recording system
- [V] blended learning(combination of online and offline teaching)
- [ ] others
- [V] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] TBL(Team Based Learning)
- [V] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

The course has prerequisites in mathematics and statistics. The equivalent of high school algebra and calculus will be assumed. Basic knowledge of using spreadsheets such as Microsoft EXCEL is expected.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	5	5	TBA
midterm exam	1	30	
final exam	1	35	
quiz	2	5	One before midterm / Another before final – If the schedule changes, then, we will reallocate credits between them for quizzes and homeworks
presentation			
discussion			
homework	4	15	Group & Individual Assignment
etc	1	10	Term project
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Introduction to Econometrics	James H. Stock, and Mark M. Watson	Pearson	

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	What are data?	E	유재인			
2	Review of Probability and Statistics	E	유재인			
3	Linear regression with one regressor	E	유재인			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Linear regression in R & Python	E	유재인			
5	Multiple regression	E	유재인			
6	Multiple regression in R & Python	E	유재인			
7	Binary variable – Some Qualitative Research Review	E	유재인			
8	Midterm	E	유재인			
9	Multicollinearity – Choosing a good explanatory variable in real examples	E	유재인			
10	Heteroskedasticity – Discussion on Cross-sectional & Panel data	E	유재인			
11	Generalized Least Squares – Choosing Relevant Instrumental variables	E	유재인			
12	Understanding Panel Data Structure in R & Python	E	유재인			
13	Autocorrelation – Understanding Time-series data (Macroeconomic indicators)	E	유재인			
14	Serial correlation: Stock prices, returns, and volatility	E	유재인			
15	Autoregressions and forecasting – Programming for multiple time-series data	E	유재인			
16	Final Exam	E	유재인			

11. Other items of notification

Fundamentals of English Structure

Course Name	Course type (credit/hours)	전선(3/3)		Course code	J051
	Target students Division/major/grade	/1학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월E(다205-A) 수E(다205-A)(다205-A)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		조재형 (교수/인문대학 영어영문학과)		
	Office Room Number	다산관 412	Office phone Number	2823	e-mail
	Office hours	월수 14:00-15:00	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

The purpose of this course is to help students understand the structure of English, explore English grammr, and hence develop their reading and writing skills in English.
This course also provides strudents with the opportunity to develop their listening and speaking skills in English through a range of authentic audio and video recordings.

2. Course Objectives

3. Class types and activities

This is mainly a lecture based course, and students are expected to explain sentence completion type and error identification type questions in exercises

4. Teaching Method

[V]	lecture	[ ]	discussion and debate
[ ]	team project(presentation and case studies)	[ ]	experiments(role-playing,etc)
[ ]	designing and production	[ ]	on-site learning(on-site training)
[ ]	others		

5. Support Systems in Use

[V]	e-class	[ ]	automatic recording system	[ ]	web-based assignment
[ ]	cyber lecture	[ ]	blended learning(combination of online and offline teaching)		
[ ]	class behavior analyazing system	[ ]	others		

6. Teaching Tools

[ ]	PBL(Problem Based Learning)	[ ]	CBL(Case Based Learning)
[ ]	TBL(Team Based Learning)	[ ]	others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	
midterm exam	1	35	
final exam	1	35	
quiz	2	20	
presentation		5	
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Fundamental English Grammar	Cho, J.H. & H. Han	Ajou Univ. Press	2021
Sub	Fundamentals of English Grammar	Azar, B.S.	Prentice Hall	1992
Sub	Grammar in Use	Murphy, R.	Cambridge Univ. Press	2000

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction / Goals Angels on a Pin: a Modern Parabl (Comprehension Check-up, Vocabulary, Word Forms, Grammatical Usage)	K	조재형			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Basic Word Order: Statements / Questons / Commands / Tag Questions	K	조재형			
3	Modifiers and Modification: Modifiers of Nouns / Modifiers of Verbs / Modifiers of Adjectives and Adverbs / Modifiers of Sentence	K	조재형			
4	Tense (I): Simple Present Tense / Present Progressive Tense / Verbs Usually Used in the Simple Present, Not in the Present Progressive	K	조재형			
5	Tense (II): Simple Past Tense / Past Progressive Tense/ Past Progressive and Simple Past / Future Tense / Future Progressive Tense / Future Time Clause	K	조재형			
6	Tense (III): Present Perfect Tense / Present Perfect and Simple Past / Present Perfct Progressive Tense / Past Perfect Tense / Past Perfect Progressive Tense / Future Perfect Tense / Future Perfect Progressive Tense	K	조재형			
7	Question and Answer Session / Quiz1	K	조재형	퀴즈1지필평가		
8	Mid-Term Exam	K	조재형	중간지필평가		
9	Auxiliary Verbs: Expressing Ability / Expressing Permission / Expressing Obligation and Necessity / Expressing Possibility and Probability / Expressing Willingness, Characteristics, and Wants Troublesome Varbs: Transitive Verbs vs. Intransitive Verbs / The Principal Verbs Do and Make / Confusing Pairs of Transitive and Intransitive Verbs	K	조재형			
10	Infinitives and Gerunds: Verb + Infinitive / Verb + (Noun Phrase) + Infinitive / Verb + Noun Phrase + Infinitive / Verb + Gerund / Verb + Infinitive / Verb + Gerund	K	조재형			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
11	Participles: Participles as Modifiers of Nouns / Participles as Subject or Object Complements / Participle Constructions in Subordinate Clauses	K	조재형			
12	Subjunctive Mood: Demand-Class Verbs and Predicates / The Verb Wish / If-Clauses	K	조재형			
13	Articles: Articles with Singular Countable Nouns / Articles with Plural Countable Nouns / Articles with Uncountable Nouns / Articles with Names / Specific Uses of the Definite Article Prepositions: Time/ Place / Direction / Manner / Phrasal Combinations	K	조재형			
14	Nouns and Pronouns: Nouns / Pronouns / Gender Agreement: Subject-Verb Agreement	K	조재형			
15	Question and Answer Session / Quiz2	K	조재형	퀴즈2지필평가		
16	Final Exam	K	조재형	기말지필평가		

11. Other items of notification

Global Intensive Study 1

Course Name	Course type (credit/hours)	전선(1/1)	Course code	B109
	Target students Division/major/grade	AI모빌리티공학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	목1(혜104)(혜104)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)				송봉섭	
	Office Room Number	동관 202	Office phone Number	2339	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

The course provides intensive experience to participate in a series of seminars given by foreign universities and research institutes, thus encouraging students to design their career path in the future. No matter what scope of the seminar in the area of future mobility is given, the supplementary lecture and discussion will follow for better understanding. Therefore, any prerequisite is not required for students. Furthermore, survey reports will be asked if they visit research facilities in either university or research institute and the research result is demonstrated.

2. Course Objectives

1) 모빌리티공학 분야의 문제를 이해하고 공학적 문제로 정의할 수 있다.
2) 모빌리티공학 분야의 공학적 문제를 해결하는 아이디어와 개념을 이해할 수 있다.
3) 혁신적인 해외 기술의 등장 배경을 이해하고 활용 분야를 이해할 수 있다.
4) 모빌리티공학 분야의 새로운 모빌리티 수단의 기본적 개념을 이해할 수 있다.
5) 모빌리티공학 분야의 기술 진화를 예측할 수 있다.

1) Ability to understand basic problems and define the engineering problem in the area of mobility engineering
2) Ability to understand ideas and concepts to solve the engineering problem
3) Ability to understand background and applications of innovative technology
4) Ability to understand background and concept of new mobility system
5) Ability to predict evolution direction of mobility technology

3. Class types and activities

1) 15 hour course of seminar, lecture, and discussion (3 hour/day)
2) both lecture and discussion will follow after 1 hour seminar

4. Teaching Method

☑ lecture	☑ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

1) 영어 능력
2) 관련 주제 탐색 능력
3) 기본적인 공학 지식

1) ability to listen and speak English
2) ability to search state-of-the-art engineering trend
3) ability to understand basic engineering knowledge

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam			
final exam			
quiz			
presentation			
discussion			
homework	3	90	
etc			
study hours	15 hours		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
No Data				

10. Class system and Class shedule

Five subjects in future mobility engineering will be covered via seminars and the supplementary lecture and discussion will follow. A list of subjects are
1) Introduction to future mobility
2) Key issues in automated vehicle: perception, decision, control
3) Innovative technology in mobility: AI, bigdata, accelerated validation, digital twin
4) Future mobility (UAV and UAM): new mobility hardware and software
5) Automated vehicle and beyond: direction and prediction of evolution and innovation

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to future mobility	E	송봉섭	lecture & discussion		
2	Key issues in automated vehicle	E	송봉섭	lecture & discussion	Report 1	
3	Innovative technology in mobility	E	송봉섭	lecture & discussion		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Future mobility (UAV and UAM)	E	송봉섭	lecture & discussion	Report 2	
5	Automated vehicle and beyond	E	송봉섭	lecture & discussion	Report 3	

11. Other items of notification

Global Society and Governance

Course Name	Course type (credit/hours)	전선(3/3)	Course code	K046
	Target students Division/major/grade	행정학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화F(율255) 목E(율255)(율255)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	이유현 (조교수/사회과학대학 행정학과)				
	Office Room Number	율곡관 521호	Office phone Number	2749	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

Global Society and Governance.

The subject of Global Society and Governance aims at introducing students to the study of global governance as the functioning of international relations that determine the actions of certain persons, institutions, or markets.
These rules derive mostly from international organizations, governments, and non-government entities.

The main goals of the study of the subject are for students;
1) To learn about the rules and mechanisms in international relations and in the global economy, climate change, and the attainment global agenda.
2) To learn about the Korean governance model in the era of Covid 19 crisis, offering insights for other countries.

2. Course Objectives

By the end of this course, student will recognize the importance of comparing various forms of public administration in the global society.
The student will also be eligible for explaining the role and work of IOs and non-government organizations.

3. Class types and activities

This class will be delivered 100% in English.
This class includes lectures, presentations, discussions.

Every week, students should prepare for the debate.
All class materials will be uploaded to Ajou BB every week.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [V] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

Basic English communication skills.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	32	20	including attitude, active participation in debate and team project
midterm exam			
final exam			
quiz			
presentation	1	40	
discussion			
homework	1	40	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	International Politics: Power and Purpose in Global Affairs	Paul DAnieri	Cengage Learning, Inc	2020
Sub	코로나 19와 한국의 거버넌스	박재창	박영사	2021

10. Class system and Class shedule

This class requires students active participation in class
Students should prepare their debates every week.

Students will also organize their teams for their team project.
Attendance and attitude will take into account in the final grade.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction: Problems and Questions	E	이유현			
2	Historical Evolution of International Politics	E	이유현			
3	The State, Society and the Foreign Policy Process	E	이유현			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	International Organizations	E	이유현			composition of team for team project
5	Invited Talk -GGGI	E	이유현			
6	Insecurity, Political Economy , Trade and Finance	E	이유현			
7	Global Environment and the Power and Purpose	E	이유현			
8	Feedback & Q&A	E	이유현			
9	Humanities and Global governance	E	이유현			
10	Risk Governance	E	이유현			
11	Korean society and nation	E	이유현			
12	Korean governance model in the era of Covid 19	E	이유현			
13	Governance and performance evaluation	E	이유현			
14	Student presentation	E	이유현			
15	Student presentation	E	이유현			
16	Feedback & Q&A	E	이유현			

11. Other items of notification

Human Resources Management

Course Name	Course type (credit/hours)	전선(3/3)	Course code	I031
	Target students Division/major/grade	경영학부/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(연암102) 수C(연암102)(연암102)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	Organizational Behavior		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	최명원 (교수/경영대학 경영학과)				
	Office Room Number	다산관 529호	Office phone Number	3671	e-mail	
	Office hours	to be announced		Homepage address		
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course introduces you to the field of Human Resource Management (HRM), a systematic study of the policies, practices, and systems that influence employees' attitudes and behaviors. Throughout the semester, you will learn the principles of HRM and their applications in organizational settings. Specific topics include recruitment, selection, training & development, performance management, compensation, and employee relations.

2. Course Objectives

The basic objective of this course is to help you understand the theories and practices of HRM. Upon completion of the course, you should be able to: (a) explain the key principles of HRM, (b) explain how HRM practices are designed, and (c) explain how HRM practices can be used to achieve organizational goals.

3. Class types and activities

You are required to read the assigned chapter(s) of the textbook prior to each class session. Lecture notes will be uploaded to Ajou Blackboard (http://eclass2.ajou.ac.kr) around once a week.

4. Teaching Method

[V] lecture	[V] discussion and debate
[ ] team project(presentation and case studies)	[ ] experiments(role-playing,etc)
[ ] designing and production	[ ] on-site learning(on-site training)
[ ] others	

5. Support Systems in Use

[V] e-class	[ ] automatic recording system	[ ] web-based assignment
[ ] cyber lecture	[ ] blended learning(combination of online and offline teaching)	
[ ] class behavior analyazing system	[ ] others	

6. Teaching Tools

[ ] PBL(Problem Based Learning)	[ ] CBL(Case Based Learning)
[ ] TBL(Team Based Learning)	[ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Attendance
midterm exam	1	40%	Midterm Exam
final exam	1	40%	Final Exam
quiz		10%	Quizz
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Human Resource Management (11th edition)	R. A. Noe, J. R. Hollenbeck, B. Gerhart, P. M. Wright	McGraw-Hill Education	2018

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Overview	E	최명원			
2	Introduction to HRM	E	최명원			
3	HR Planning & Recruitment	E	최명원			
4	Selection & Placement	E	최명원			
5	Employee Separation & Retention	E	최명원			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	Performance Management	E	최명원			
7	Performance Management (cont.)	E	최명원			
8	Midterm Exam	E	최명원			
9	Employee Training	E	최명원			
10	Employee Training (cont.)	E	최명원			
11	Employee Development	E	최명원			
12	Compensation	E	최명원			
13	Employee Benefits	E	최명원			
14	Employee Relations	E	최명원			
15	Global HRM	E	최명원			
16	Final Exam	E	최명원			

11. Other items of notification

IT Professional English

Course Name	Course type (credit/hours)	전선(3/3)	Course code	F089
	Target students Division/major/grade	소프트웨어학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화F(혜206) 목E(혜206)(혜206)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Joseph Ball (조교수/대학 다산학부대학)			
	Office Room Number	성호관417호	Office phone Number	2846	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

IT English is a course that concentrates on English with an Information Technology focus. Speaking lessons include pair work, small group tasks and class discussions. The language of instruction is in English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly for PPT activities.

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities.

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics.

(4)Follow the steps in the IT Business Proposal

3. Class types and activities

Investigating New Technologies
CASE STUDY BASED ON IT BUSINESS
Presentation (PPT) ENGLISH

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies) [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [V] automatic recording system   [V] web-based assignment

[V] cyber lecture   [V] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate material.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		15%	Attendance: Students are responsible for obtaining notes and completing assignments given on days they were absent. Furthermore, unexcused absences w
midterm exam			
final exam		30%	Individual IT Business Proposal: Students will complete a Written IT Bus. Proposal 15% and an Individual Power Point Presentations from Proposal: 15%
quiz			
presentation		10%	Daily Class Participation: Students are expected to speak English during class time. Students are expected to complete all in-class tasks. Students ar
discussion			
homework		45%	IT Form, Breakthrough Tech PPT, Infographic, Crisis Management Presentation, & Design a Car or Robot
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	Please have a laptop for every class.			

10. Class system and Class shedule

We will simply follow the activities from the syllabus.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Review of SyllabusYour Future IT Public Limited Company Exercise 5%		Joseph Ball	Online & Video		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	IT Breakthrough Technologies Exercise 10%		Joseph Ball	Online & Video		
3	IT Group Infographics Group Exercise 10%		Joseph Ball	Online & Video		
4	IT Group Infographics Group Exercise 10%		Joseph Ball	Online & Video		
5	IT Group Infographics Group Exercise 10%		Joseph Ball	Online & Video		
6	IT Crisis Management Group Exercise 10%		Joseph Ball	Online & Video		
7	IT Crisis Management Group Exercise 10%		Joseph Ball	Online & Video		
8	IT Crisis Management Group Exercise 10%		Joseph Ball	Online & Video		
9	IT Crisis Management Group Exercise 10%		Joseph Ball	Online & Video		
10	Review for Individual IT Business Proposals and PPT Creating an IT Business Proposal		Joseph Ball	Online & Video		
11	Review for Individual IT Business Proposals and PPT Creating an IT Business Proposal		Joseph Ball	Online & Video		
12	Review for Individual IT Business Proposals and PPT Creating an IT Business Proposal		Joseph Ball	Online & Video		
13	Guidelines for Individual IT Product Business Proposal PPT Design a Car Group Exercise 10%		Joseph Ball	Online & Video		
14	Management Styles CEO Traits Guidelines		Joseph Ball	Online & Video		
15	Due Individual IT Business Proposal 15%		Joseph Ball	Online & Video		
16	IT Business Power Point Presentations 15%		Joseph Ball	Online & Video		
17	IT Business Power Point Presentations 15%		Joseph Ball	Online & Video		

11. Other items of notification

Course Name	Course type (credit/hours)	전선(3/3)		Course code	I055
	Target students Division/major/grade	경영학부/3학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(다310) 목D(다310)(다310)		English Grade	A(100%English)
Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)	정대용 (교수/경영대학 경영학과)			
	Office Room Number	다산관 424	Office phone Number	2840	e-mail	
	Office hours	1pm-2:30pm, Tue.	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number	509 Dasan Hall	Office phone Number	010-7383-4537	e-mail	ich45337@hanmail.net

1. Introduction

Industrial relations (IR) is the interdisciplinary field of study that concentrates on workers and their unions (and associations), employers and their organizations, government, and the environment in which these "actors" interact. This course explores the components and dynamics of IR systems and how the IR actors use rule-making processes to establish terms and conditions of employment in their environmental settings. A secondary emphasis is on international comparisons to enhance understanding of the unique qualities of the Korean IR system and an appreciation for international variations. The course utilizes an interdisciplinary approach, drawing on theories and concepts from economics, psychology, sociology, labor law, and other behavioral sciences.

2. Course Objectives

3. Class types and activities

1. We hold live online classes in Zoom due to the COVID-19 situation (A couple offline classes could be held if necessary). You must have a camera & a microphone in your computer and turn them on during class to show your face/upper body (no mask/no hat) and participate in discussions effectively. Two offline exams will be given.

2. I do not use a spoon-feeding teaching style. Learning in my class is based on collective action (discussion-bases class), and all activities in class will be conducted in English only, You are required to complete the readings prior to each class, contribute to the discussion of the material, and ask questions when you do not understand. You will learn from your classmates and help them learn. As an instructor, I am here to facilitate your mutual teaching and learning, not to give you "the answers." Active participation in discussions is expected, and your participation will be evaluated. As such, you should have an appropriate level of English skills and willingness to participate in class activities.

WARNING: If you are uncomfortable or unwilling to participate and contribute to a joint-learning environment, you should consider taking another course (or taking this course with another instructor).

4. Teaching Method

- [V] lecture
- [V] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] TBL(Team Based Learning)
- [V] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

1. College-level English skills.
2. Willingness to participate in class activities.

NOTE: all activites in class will be conducted in English only.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1	35%	Short essay questions.
final exam	1	35%	Short essay questions.
quiz		10%	Pop-quizzes (unannounced) will be given several times througout the semester.
presentation			
discussion			
homework			
etc		20%	Participation in class activities
study hours	3-7 hours depending on your abilties		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Course pack (Various Articles)	Authors	Publishers	0000
Main	An Introduction to U.S. Collective Bargaining and Labor Relations	Harry C. Katz, Thomas A. Kochan, and Alexander J. S. Colvin	Cornell University Press	2017

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to the field of IR	E	정대용			
2	Classical Theories: Adam Smith & Karl Marx	E	정대용			
3	Institutionalist View & System Approach	E	정대용			
4	Korean IR I	E	정대용			
5	Korean IR II	E	정대용			
6	Environment, the State & Labor Laws	E	정대용			
7	Union Strategies & Structures	E	정대용			
8	Mid-term Exam (Offline)	E	정대용			
9	Management Strategies & Structures	E	정대용			
10	Union Organizing & Bargaining Structures I	E	정대용			
11	Union Organizing & Bargaining Structures II	E	정대용			
12	Negotiation Process & Strikes	E	정대용			
13	Participatory Processes	E	정대용			
14	International & Comparative IR: Germany	E	정대용			
15	International & Comparative IR: Japan	E	정대용			
16	Exam Review & Final Exam (Offline)	E	정대용			

11. Other items of notification

1. My course does not fit those students whose main goal is to get a "good grade." It better fits those who enjoy the process of learning.

2. This course is offerd for upper-level undergraduate (third & fourth year) students, and its content is complex. You should take another course if you are looking for an "easy course."

3. If you already took this course with me before, you are not allowed to retake this course with me. It would be more beneficial for you to retake this course with another prof.

Course Name	Course type (credit/hours)	전선(3/3)	Course code	I124
	Target students Division/major/grade	경영학부/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(다310) 목D(다310)(다310)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	정대용 (교수/경영대학 경영학과)			
	Office Room Number	다산관 424	Office phone Number	2840	e-mail
	Office hours	1pm-2:30pm, Tue.	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number	509 Dasan Hall	Office phone Number	010-7383-4537	e-mail	ich45337@hanmail.net

1. Introduction

Industrial relations (IR) is the interdisciplinary field of study that concentrates on workers and their unions (and associations), employers and their organizations, government, and the environment in which these "actors" interact. This course explores the components and dynamics of IR systems and how the IR actors use rule-making processes to establish terms and conditions of employment in their environmental settings. A secondary emphasis is on international comparisons to enhance understanding of the unique qualities of the Korean IR system and an appreciation for international variations. The course utilizes an interdisciplinary approach, drawing on theories and concepts from economics, psychology, sociology, labor law, and other behavioral sciences.

2. Course Objectives

3. Class types and activities

1. We hold live online classes in Zoom due to the COVID-19 situation (A couple offline classes could be held if necessary). You must have a camera & a microphone in your computer and turn them on during class to show your face/upper body (no mask/no hat) and participate in discussions effectively. Two offline exams will be given.

2. I do not use a spoon-feeding teaching style. Learning in my class is based on collective action (discussion-bases class), and all activities in class will be conducted in English only, You are required to complete the readings prior to each class, contribute to the discussion of the material, and ask questions when you do not understand. You will learn from your classmates and help them learn. As an instructor, I am here to facilitate your mutual teaching and learning, not to give you "the answers." Active participation in discussions is expected, and your participation will be evaluated. As such, you should have an appropriate level of English skills and willingness to participate in class activities.

WARNING: If you are uncomfortable or unwilling to participate and contribute to a joint-learning environment, you should consider taking another course (or taking this course with another instructor).

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

```
1. College-level English skills.
2. Willingness to participate in class activities.

NOTE: all activites in class will be conducted in English only.
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8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1	35%	Short essay questions.
final exam	1	35%	Short essay questions.
quiz		10%	Pop-quizzes (unannounced) will be given several times througout the semester.
presentation			
discussion			
homework			
etc		20%	Participation in class activities
study hours	3-7 hours depending on your abilties		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Course pack (Various Articles)	Authors	Publishers	0000
Main	An Introduction to U.S. Collective Bargaining and Labor Relations	Harry C. Katz, Thomas A. Kochan, and Alexander J. S. Colvin	Cornell University Press	2017

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to the field of IR	E	정대용			
2	Classical Theories: Adam Smith & Karl Marx	E	정대용			
3	Institutionalist View & System Approach	E	정대용			
4	Korean IR I	E	정대용			
5	Korean IR II	E	정대용			
6	Environment, the State & Labor Laws	E	정대용			
7	Union Strategies & Structures	E	정대용			
8	Mid-term Exam (Offline)	E	정대용			
9	Management Strategies & Structures	E	정대용			
10	Union Organizing & Bargaining Structures I	E	정대용			
11	Union Organizing & Bargaining Structures II	E	정대용			
12	Negotiation Process & Strikes	E	정대용			
13	Participatory Processes	E	정대용			
14	International & Comparative IR: Germany	E	정대용			
15	International & Comparative IR: Japan	E	정대용			
16	Exam Review & Final Exam (Offline)	E	정대용			

11. Other items of notification

1. My course does not fit those students whose main goal is to get a "good grade." It better fits those who enjoy the process of learning.

2. This course is offerd for upper-level undergraduate (third & fourth year) students, and its content is complex. You should take another course if you are looking for an "easy course."

3. If you already took this course with me before, you are not allowed to retake this course with me. It would be more beneficial for you to retake this course with another prof.

Inorganic Industrial Chemistry

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>전선(3/3)</td><td>Course code</td><td>D068</td></tr>
<tr><td>Target students Division/major/grade</td><td>생명·분자공학부/응용화학전공 4학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>화A(혜106) 금A(혜106)(혜106)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3"></td></tr>
<tr><td>Related basic courses</td><td colspan="3">물리화학, 무기화학</td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3">촉매공학, 청정화학입문, 니노기술입문</td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">윤태광 (조교수/공과대학 응용화학생명공학과)</td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
<tr><td>Office hours</td><td colspan="2">월15:00-18:00</td><td>Homepage address</td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
</table>

1. Introduction

2. Course Objectives

반도체공정기술, 환경정화공업, 촉매와 관련된 공업, 제올라이트 및 메조다공실리카, 활성탄, 형광체 및 디스플레이 공학에 대한 기초적인 지식을 습득한다.

3. Class types and activities

4. Teaching Method

☐ lecture   ☐ discussion and debate

☐ team project(presentation and case studies)   ☐ experiments(role-playing,etc)

☐ designing and production   ☐ on-site learning(on-site training)

☐ others

5. Support Systems in Use

☑ e-class   ☐ automatic recording system   ☐ web-based assignment

☑ cyber lecture   ☐ blended learning(combination of online and offline teaching)

☐ class behavior analyazing system   ☐ others

6. Teaching Tools

☐ PBL(Problem Based Learning)   ☐ CBL(Case Based Learning)

☐ TBL(Team Based Learning)   ☐ others

7. Knowledge and ability required for taking this course

무기화학, 물리화학에 대한 기초적인 지식이 필요함.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam	1	45	
final exam	1	45	
quiz			
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	나노재료(범한서적)	김기범, 김현미, 정운룡, 최현진, 홍성현	범한서적	2012

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	무기재료의 결정구조 및 표면에너지		윤태광			
2	용액 기반 무기 나노 구조 합성 이론		윤태광			
3	용액 기반 무기 나노 구조 합성 이론 -2		윤태광			
4	용액 기반 무기 나노 구조 합성의 응용		윤태광			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	액상 공정 기반 1차원 무기 나노 물질의 합성 및 응용		윤태광			
6	기상공정을 통한 무기 나노 재료의 합성		윤태광			
7	무기 나노 구조 공정 기술 개론		윤태광			
8	중간고사		윤태광			
9	나노 재료의 특성 및 분석법		윤태광			
10	최신 무기 및 유/무기 복합 나노 재료의 합성 및 응용		윤태광			
11	최신 무기 및 유/무기 복합 나노 재료의 합성 및 응용 -2		윤태광			
12	에너지 저장 시스템 설계		윤태광			
13	신재생에너지 소재 설계		윤태광			
14	촉매 나노 소재 설계		윤태광			
15	review		윤태광			
16	기말고사		윤태광			

11. Other items of notification

International Organization and Human Resource Management

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>전선(3/3)</td><td>Course code</td><td>I063</td></tr>
<tr><td>Target students Division/major/grade</td><td>경영학과/3학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>월E(다B108) 수E(다B108)(다B108)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3">조직행위론 또는 인적자원관리</td></tr>
<tr><td>Related basic courses</td><td colspan="3">각 사회과학 분야 개론</td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3"></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">김도영 (교수/경영대학 경영학과)</td></tr>
<tr><td>Office Room Number</td><td>다522</td><td>Office phone Number</td><td>2914</td><td>e-mail</td></tr>
<tr><td>Office hours</td><td></td><td>Homepage address</td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
</table>

1. Introduction

This course introduces a student to the impact of vibrant global conditions on managing an organization and human resources at home and abroad. It discusses the expansion of international trade and the growth of U.S. and non-US MNEs/SMEs. It considers globalization and multinational organization and human resource management issues in the context of overseas subsidiaries, domestic locations and their use of immigrants, international joint ventures, international mergers and acquisitions, and the multinational enterprise itself. This course will help students identify differences in operating a domestic versus an international business organization and how business practices will need to be adapted to operate successfully in foreign markets. As we explore these issues, differences in countries and organizations due to such factors as a country and organizational cultures, socio-political differences, legal regulations, economic and educational levels, and business customs are addressed. There are many opportunities to learn about all these aspects of international organization/human resource management. Because this field is so large, however, we can only begin to cover it, and therefore, focus mostly on issues rather than techniques, but we will do the best job we can with your dedication, interest, and involvement. To this end, various teaching and training methods such as TBL, PBL, and flipped learning, blended learning will be adopted.

2. Course Objectives

Wage disparities, intense competition, and fluctuating currency values make it challenging for MNEs/SMEs worldwide to compete in markets with products requiring a great deal of labor and make it harder for some MNEs/SMEs to maintain employees abroad. The successes of multinational enterprises such as Novartis, Wal-Mart, Starbucks, Infosys, Wipro, HCL, Samsung, L.G., IBM, Cisco, Lenovo, Haier, Baidu, TCL, Huawei, and Johnson & Johnson, however, show it is possible; it simply takes a lot of hard work and a global perspective.

Huge markets for products and services are not the only things enticing companies to enter the global arena. Foreign labor markets also attract interest. At the year 2000 growth rates, the labor force in developing nations alone will expand by about 700 million people by 2010, while the U.S. labor force will grow by only 25 million. Furthermore, opportunities for productivity growth are much more significant in developing countries. Between 1996 and 2009, for example, U.S. productivity increased by about four percent and Chinas by more than eight percent. The reasons for these differences in productivity potential are many, but simple demographics tell much of the story. The workforce is generally older in developed countries and younger in developing countries.

3. Class types and activities

<Reading assignments>
Class discussion/lecture will be based upon the readings listed in this syllabus for each day and will extend the materials from time to time. Each class requires a high degree of participation. Therefore, it is critical that you complete the reading assignment before class so that you will understand the material presented in class and can contribute to the discussion if it happens.

<Class Notes>
Course notes are available for lectures prepared by the instructor. These course notes are NOT a replacement for your own notes; they are meant to help you organize your notes and keep up with the lecture. There will be many details discussed in class and textbook that will not be included on the notes, and you will be responsible for these details on the exam.

4. Teaching Method

- [V] lecture
- [V] discussion and debate
- [V] team project(presentation and case studies)
- [V] experiments(role-playing,etc)
- [ ] designing and production
- [V] on-site learning(on-site training)
- [ ] others

5. Support Systems in Use

- [V] e-class
- [ ] automatic recording system
- [ ] web-based assignment
- [ ] cyber lecture
- [ ] blended learning(combination of online and offline teaching)
- [ ] class behavior analyazing system
- [ ] others

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] CBL(Case Based Learning)
- [V] TBL(Team Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20%	
midterm exam	3	30%	
final exam			
quiz			
presentation		30%	
discussion			
homework		20%	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	International Human Resource Management (5th Edition)	Tarique, D. Briscoe, & R. Schuler	Routledge.	2015
Sub	Articles assigned as part of course assignment			

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	IOHRM Orientation; Chapter 1	E	김도영			
2	Chapter 1 continues; Teams Due R1: Team Gathering and Discussion	E	김도영			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Teams Due R2: Roles, Goals & Ground Rules; Team Gatheri; Chapter 15	E	김도영			
4	Exam 1; Chapter 2	E	김도영			
5	Chapter 5	E	김도영			
6	Chapter 8	E	김도영			
7	Exam 2; Chapter 10	E	김도영			
8	Midterm Week (Team IOHRM Project Consultation 1)	E	김도영			
9	Special Lecture or Team Consultation with instructor	E	김도영			
10	Chapter 10 ; Chapter 12	E	김도영			
11	Chapter 12 (continues)	E	김도영			
12	Chapter 14; Exam 3	E	김도영			
13	Oral Team Progress Report to Class ? Extensive & Pre-conference (Team IOHRM Project Consultation 2)	E	김도영			
14	Conference Round 1	E	김도영			
15	Conference Round 2	E	김도영			
16	Final Exam Week! (Final Team Paper Due)	E	김도영			

11. Other items of notification

Introduction to Brain Science

Course Name	Course type (credit/hours)	전선(3/3)	Course code	G077
	Target students Division/major/grade	생명과학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화A(성131) 금A(성131)(성131)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	없음		
	Related basic courses	생물학1, 생물학2		
	Recommanded concurrent courses	없음		
	Related advanced courses	신경생물학		

Instructor	Name (title/division)	허지연 (조교수/자연과학대학 생명과학과)			
	Office Room Number	팔달관 712호	Office phone Number	2548	e-mail
	Office hours	화 2-4pm		Homepage address	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course introduces the field of brain science. Following the 'Neurobiology' course in the spring semester, 'Introduction to Brain Science' covers a general introduction to brain science and its related brain disorders in depth. Moreover, students will learn about the causes, the cellular and molecular mechanisms, and the possible treatment methods of brain disorders. By understanding the etiology of brain disorders, students will also learn the importance of the structures and functions of the human brain.

2. Course Objectives

1. To learn about a basic principle that governs the nervous system of our body
2. To learn about the structure-function relationship of the nervous system
3. To learn about molecular mechanisms in neuroscience

3. Class types and activities

This course introduces the field of brain science, and its related and most representative disorders. By understanding the causes of brain disorders, students could understand the structures and functions of the human brain. Students will be evaluated by a presentation, a mid-term exam, and a final exam.

4. Teaching Method

☑ lecture	☐ discussion and debate
☑ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

Knowledge about Biology 1 and 2 is required.
Knowledge about neurobiology is preferred but not required.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	16	10%	Full attendance (10 points), Each absence will be deducted by 1 point. Cheating in attendance will get 0. Eight times or more absences will get F.
midterm exam	1	35%	
final exam	1	35%	
quiz			
presentation	1	20%	
discussion			
homework			
etc			
study hours	4시간/주		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Neuroscience-Exploring the Brain 4e(IE)	Mark F. Bear / Barry W. Connors / Michael A. Paradiso	바이오메디북	2015
Ref.	Principles of Neurobiology	Liqun Luo	Garland Science	2020
Ref.	Research papers			

10. Class system and Class shedule

1. This lecture will cover the general principles of brain science and its related disorders.
2. Each student will give a presentation based on a selected topic.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction, Introduction to Brain Science	E	허지연	강의		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Introduction to Brain Science	E	허지연	강의		
3	Alzheimers disease	E	허지연	강의		
4	Parkinsons disease	E	허지연	강의		
5	Huntingtons disease	E	허지연	강의		
6	ALS	E	허지연	강의		
7	Stroke	E	허지연	강의		
8	Midterm exam	E	허지연	중간고사		
9	Infection in CNS	E	허지연	강의		
10	Neurodevelopmental disorder	E	허지연	강의		
11	Psychiatric disorder I	E	허지연	강의		
12	Psychiatric disorder II	E	허지연	강의		
13	Psychiatric disorder III	E	허지연	강의		
14	Presentation	E	허지연	발표		
15	Presentation	E	허지연	발표		
16	Final exam	E	허지연	기말고사		

11. Other items of notification

Introduction to British and American Literature

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td colspan="2">전필(3/3)</td><td>Course code</td><td>J055</td></tr>
<tr><td>Target students Division/major/grade</td><td colspan="2">영어영문학과/2학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td colspan="2">월D(다205-B) 목D(다205-B)(다205-B)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="4"></td></tr>
<tr><td>Related basic courses</td><td colspan="4">문학 전공영어 독해</td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="4">영미단편</td></tr>
<tr><td>Related advanced courses</td><td colspan="4">영문학사, 미국문학사</td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td colspan="2">Name (title/division)</td><td colspan="4">김미현 (교수/인문대학 영어영문학과)</td></tr>
<tr><td>Office Room Number</td><td>다산관416</td><td>Office phone Number</td><td>2825</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td>이메일로 약속</td><td>Homepage address</td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td colspan="2">Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

We will read the major works in English and American literature and examine the characteristics, features, components of the works to have a better understanding of American and English literature and learn the basics of literary analysis.

2. Course Objectives

Improving English reading and listening proficiency.
Deepening the understanding of American and English culture and literature.
Learning the basics of literary analysis and criticism.

영문 독해력 향상
영미 문화와 문학에 대한 이해 심화
문학 작품 감상, 비평, 분석 기초 배우기

3. Class types and activities

We will have lectures, small group discussions, class discussions, and writings in class or as assignments.
Students are required to read the reading assignment in advance to be prepared for the lecture, class discussion and class activities.
Group or individual presentation on a literary work is also required.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

Basic reading, listening, writing and speaking proficiency in English.

영어 읽기, 듣기, 쓰기, 말하기 기초 능력.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	
midterm exam		20%	상향 조정 될 수 있음
final exam		20%	상향 조정 될 수 있음
quiz	5~8	15%	상향 조정 될 수 있음
presentation		10%	
discussion			
homework	1~3	15%	상향 조정 될 수 있음
etc		10%	수업 참여도와 태도
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Course Packet (Literary Works) on Bb	Different Authors		

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction	E	김미현			
2	Sonnet "Shall I compare thee to a summer's day" by Shakespeare	E	김미현			
3	"To His Coy Mistress" by Andrew Marvell	E	김미현			
4	"Ode on a Grecian Urn" by John Keats	E	김미현			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	"My Heart Leaps Up" by William Wordsworth	E	김미현			
6	From Romeo and Juliet by Shakespeare	E	김미현			
7	From Romeo and Juliet by Shakespeare	E	김미현			
8	Mid-term Exam	E	김미현			
9	"The Minister's Black Veil" by Nathaniel Hawthorne	E	김미현			
10	"The Minister's Black Veil" by Nathaniel Hawthorne	E	김미현			
11	Jury of Her Peers" by Susan Glaspell	E	김미현			
12	"Jury of Her Peers" by Susan Glaspell	E	김미현			
13	"A & P" by John Updike	E	김미현			
14	"A & P" by John Updike	E	김미현			
15	Review	E	김미현			
16	Final Exam	E	김미현			

11. Other items of notification

Introduction to Digital Design

Course Name	Course type (credit/hours)	교필(3/3)		Course code	E003
	Target students Division/major/grade	건축학과/1학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	화8.5(전510) 화9.5(전510) 화10.5(전510)(전510)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	건축의 이해, 건축설계기초 1
	Recommanded concurrent courses	
	Related advanced courses	건축 설계 입문 및 실습 1, 2

Instructor	Name (title/division)			이황 (부교수/공과대학 건축학과)		
	Office Room Number	산학협력원 716	Office phone Number	2493	e-mail	
	Office hours	Wed. 11AM-12PM (by appointment only)	Homepage address		https://sites.google.com/view/deers-arch	
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course introduces college freshmen in architecture to the basic concepts, skills, and theoretical aspects of Computer-Aided Design (CAD) and microcomputer skills/programming (if necessary), leading to a fundamental but thoughtful understanding of building geometry and its digital representation. Topics and tools are specifically geared to the first-year beginners, so they get themselves familiarized with sketching, drawing, modeling, and rendering using digital tools. The course, on the other hand, seeks to engage students in digitally-streamlined processes of building design. Course materials and production focusing on the cutting-edge elements of CAD such as 3D printing or organic modeling will prepare students for upper-level design studios and related classes.

2. Course Objectives

Course objectives and expected outcomes: Contemporary building projects cannot be realized without aids of digital tools; designs and geometry are getting more complex, and construction processes are simulated, automated and controlled with digital, information, and computation technologies. In such a shifting context of architecture, this course encourages to take a technological framework of designing and producing buildings. This course covers basics of 2- and 3- dimensional drafting and modeling of building design with introductory CAD methods for building production. However, rather than promoting architectural tools of representation as willful self-expression, this course aims to enable students to actively employ emerging technologies for design, visualization, and fabrication. Topics are studied by means of manipulative exercises under active guidance and supervision of a lecturer or guests responsible for curriculum and instruction at the Ajou university. Prior to the end of the semester (4-5 week before), a topic of the final design project will be assigned to groups of 2-3 students. Students are required to present their plans and ideas, and tasked with designs and physical productions (3D-printed scale models).

3. Class types and activities

Laboratory. 3 hours per week (1.5 hr lecture + 1.5 hr in-class work). English course
1) Lecture: Slide lectures for the first one and half hours (4:30 ~ 6:00 PM)
2) Recitation: Assignment review and practice for the second one and half hours.

4. Teaching Method

☑ lecture	☐ discussion and debate
☑ team project(presentation and case studies)	☑ experiments(role-playing,etc)
☑ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☑ automatic recording system	☐ web-based assignment
☑ cyber lecture	☑ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☑ CBL(Case Based Learning)
☑ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

No prior knowledge is required, but ability to communicate and understand in English is necessary. Basic computer skills are preferred.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		25%	Attendance, integrity in class, and team collaboration
midterm exam			
final exam			
quiz			
presentation		30%	Productivity and quality of the final project (plan, concepts, studies, design, and 3D printed models)
discussion			
homework		45%	In-class Exercises: Proficiency in digital techniques (digital/physical models, drawings, and renderings)
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Ref.	Siteless: 1001 Building Forms	Blanciak, F	MIT Press	2008
Ref.	Digital Architecture: New Applications	Kottas, D.	LINKS	2013
Ref.	Simulations: Modeling, Measuring, and Disrupting Design	TAD (Technology, Architecture + Design)	Talyor & Francis Group	2017
Ref.	Hybrid metaheuristic experiments of real-time adaptive optimization of parametric shading design through remote data transfe	Yi, H.	WSC Conference	2017
Ref.(web)	Top 20: Most Popular 3D Modeling & Design Software for 3D Printing (https://i.materialise.com/blog/en/top-25-most-popular-3d-modeling-design-software)	Fabian	Web	2017
Ref.	TEACHING VISUAL SCRIPTING IN BIM: A CASE STUDY USING A PANEL CONTROLLED BY SOLAR ANGLES	Karen, M.	Journal of Green Building	
Ref.(web)	https://www.autodesk.com/education/free-software/featured		Autodesk	
Ref.(web)	https://www.sketchup.com/products/sketchup-free		SketchUp	
Ref.(web)	https://lumion.com/ ; Lumion-Sketchup Linkage: https://lumion.com/sketchup-exporters.html		Lumion	
Ref.(web)	https://www.rhino3d.com/kr/		Rhinoceros	
Ref.(web)	http://www.meshmixer.com/		Meshmixer	

10. Class system and Class shedule

Course format: Students and the instructor meet once a week, three hours. For the first one and half hours (1.5 hours), lectures are given. Recitation (practical self-training) is continued afterwards for the rest 1.5 hours. Class lecture slides help students learn how to use, draw, and take advantage of different digital tools. At the end of a lecture each week, an exercise will be given. During recitation following the lecture, students undertake a series of closely controlled exercises dealing with combining the elements, then designing within the scope of given tasks. Accordingly, self management, communication, presentation skills are regarded important. Each recitation as well as a lecture is followed by a Q&A session. Lectures are often given as a form of workshop or seminar, and especially, a 3D printing workshop maybe taken under cooperative arrangement with Makerspace at AJOU. Note that the course is offered in 100% English to prepare students for rapidly globalized education and job markets in the architecture, construction, and engineering (ACE) industry. This language requirement is not to pressurize students but part of course training, as most of the software menus and programming interfaces are written in English. All the students shall use English as a primary language within the classroom. It may be allowed for students to ask/answer questions in Korean, just in case to aid their understanding. However, in principle, Korean takes the secondary role in learning and communication.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction of the main topics of the course: Orientation to recitation and exercises; tool installation; student grouping (if necessary)	E	이황	Slide lecture		
2	Basics of digital drawing: 2D (AutoCAD)	E	이황		In-class Exercise 1	
3	Basics of digital drawing: 2D (AutoCAD)	E	이황		In-class Exercise 2	
4	No lecture (Thanksgiving)-Exercise 2 (CONT.)	E	이황			
5	Basics of digital drawing: 3D (Sketchup)	E	이황		In-class Exercise 3	
6	No lecture (Hangul day), Sketchup modeling	E	이황		In-class Exercise 4	
7	Rendering and digital presentation: Sketchup, Lumion	E	이황		In-class Exercise 5	
8	Rendering and digital presentation: Lumion with Sketchup	E	이황		In-class Exercise 6	
9	Understanding of digital geometry (polygon, NURBS, mesh): Rhino	E	이황		In-class Exercise 7	
10	Advanced 3D modeling: Rhino	E	이황		In-class Exercise 8	
11	Design for production: Introduction to 3D printing and the final project	E	이황			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
12	Design for production: Fusion 360 (Basics)	E	이황		In-class Exercise 9	
13	Design for production: Fusion 360 and Mesh mixer (Organic modeling)	E	이황		In-class Exercise 10	
14	Presentation of project plans, 3D printed work	E	이황			
15	Presentation of project plans, 3D printed work	E	이황			
16	Final week (♣ Final Team project presentation)	E	이황			

11. Other items of notification

Due to the COVID-19 Pandemic, this course will be formatted 100% online.
Online classes will use Zoom and Ajou BB to assist students' learning.

Introduction to Digital Design

Course Name	Course type (credit/hours)	교필(3/3)	Course code	E004
	Target students Division/major/grade	건축학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화8.5(전514) 화9.5(전514) 화10.5(전514)(전514)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	건축설계 기초		
	Related basic courses	건축학개론		
	Recommanded concurrent courses			
	Related advanced courses	건축 설계 입문 및 실습 1, 2		

Instructor	Name (title/division)	이병준 (강사/공과대학 건축학과)				
	Office Room Number		Office phone Number		e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

2. Course Objectives

디지털 디자인에 관한 단순한 지식이나 기술의 습득보다는 학생 각자의 데이터나 건축적 아이디어에 가장 적합한 툴을 적용해내는 능력을 배양하는 것이 중요하다. 따라서 수업을 통해 학생들의 관심이 전문적인 프로그램을 사용한 세련된 표현 방식을 훈련하는 것에서 그치는 것이 아니라 자신의 생각을 건축적인 언어를 통하여 타인에게 효과적으로 전달하는 방법에 대한 고민까지 이어져야 하겠다.

3. Class types and activities

4. Teaching Method

☑ lecture	☑ discussion and debate
☑ team project(presentation and case studies)	☑ experiments(role-playing,etc)
☑ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☑ CBL(Case Based Learning)
☑ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

No prior knowledge is required.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		30	참여도
midterm exam			
final exam		30	기말과제 (팀프로젝트)
quiz			
presentation		10	기말과제 (팀프로젝트)
discussion			
homework		30	수시과제
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Ref.	건축을 위한 라이노	이진모	우리북	2016
Ref.	스케치업 2021 feat Ruby	한정훈	정보문화사	2021
Ref.	건축의 디지털 문화	앙트완 피콩	SPACETIME	2012
Ref.	오늘의 건축을 규명하다	자크 뤼캉	시공문화사	2019

10. Class system and Class shedule

(수업내용에 관한 자세한 사항은 첨부된 강의계획서 참고)

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	오리엔테이션		이병준			
2	2D 디지털 표현 기초 #1 – AutoCAD 도면작성		이병준			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	2D 디지털 표현 기초 #2 – AutoCAD 레이아웃/플롯		이병준		In-Class Exercise 1	
4	3D 모델링: 스케치업 #1 – 기본형태 모델링		이병준		In-Class Exercise 2	
5	3D 모델링: 스케치업 #2 – AutoCAD 연계 활용법		이병준			
6	3D 모델링: 스케치업 #3 – 모델링 활용 표현기법		이병준		In-Class Exercise 3	
7	3D 모델링: 스케치업 #4 – 응용법 및 엔스케입		이병준		In-Class Exercise 4	
8	디지털 디자인 표현 기법 #1 – 투시도, 다이어그램		이병준		In-Class Exercise 5	
9	디지털 디자인 표현 기법 #2 – 인디자인 활용법		이병준		In-Class Exercise 6	
10	3D 모델링 응용: 라이노 #1 – 기초 모델링		이병준		In-Class Exercise 7	
11	3D 모델링 응용: 라이노 #2 – 건축 모델링		이병준		In-Class Exercise 8	
12	파라메트릭 디자인: 그래스하퍼 #1 – 기초 활용법		이병준		In-Class Exercise 9	
13	파라메트릭 디자인: 그래스하퍼 #2 – 모델링 & 3D Print		이병준			
14	파라메트릭 디자인: 그래스하퍼 #3 – 모델링 & 3D Print		이병준		In-Class Exercise 10	
15	3D Print Workshop		이병준			
16	Final Team Presentation		이병준			

11. Other items of notification

Introduction to Financial machine learning

Course Name	Course type (credit/hours)	전선(3/3)	Course code	I095
	Target students Division/major/grade	금융공학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화E(다311) 금E(다311)(다311)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	금융 선형대수, 통계
	Recommanded concurrent courses	
	Related advanced courses	금융딥러닝기초

Instructor	Name (title/division)		민찬호 (조교수/경영대학 금융공학과)			
	Office Room Number	다산관 505-1호	Office phone Number	3668	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This lecutres consists of basic theory and practice of machine learning. The topics we will cover includes, supervised and unsupervised learning and reinforcement learning.

2. Course Objectives

[교육목표]
기계학습의 기본 개념과 관련 알고리즘 전반에 대한 학습을 통해 주어진 데이터를 효율적으로 활용하여 의사 결정에 활용할 수 있는 능력을 배양한다.

[학습성과]
1) 기계학습 분야의 각 기본 주제 개념 및 알고리즘 동작 방식을 이해한다.
2) 주어진 데이터에 관련한 관련 문제를 도출할 수 있다.
3) 데이터 및 도출된 문제에 대한 적절한 기법을 적용, 평가를 통해 최적 기법을 선택할 수 있다.
4) 팀 기반 설계 프로젝트를 구체화하여 적절한 팀웍을 통해 진행할 수 있다.

3. Class types and activities

This course have two main parts: theory and application. In theory part we will study the underlying concept and knowledge of machine learning technique. In application, we will make use of python library to handle financial data with machine learning algorithm

4. Teaching Method

☑ lecture   ☑ discussion and debate

☑ team project(presentation and case studies)   ☐ experiments(role-playing,etc)

☑ designing and production   ☐ on-site learning(on-site training)

☐ others

5. Support Systems in Use

☑ e-class   ☐ automatic recording system   ☐ web-based assignment

☑ cyber lecture   ☑ blended learning(combination of online and offline teaching)

☐ class behavior analyazing system ☐ others

6. Teaching Tools

☐ PBL(Problem Based Learning)   ☐ CBL(Case Based Learning)

☑ TBL(Team Based Learning)   ☐ others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	수업 참여도 평가
midterm exam		30%	
final exam		30%	
quiz			
presentation			
discussion			
homework		30%	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Lecture slide			
Ref.	Python machine learning:: Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow 2, Third Edition	Sebastian Raschka, Vahid Mirjalili	Packt	
Ref.	밑바닥부터 시작하는 딥러닝(Deep learning from scratch)	사이토 고키	한빛미디어/O'Reilly	

10. Class system and Class shedule

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Supervised learning
Deep neural network
Unsupervised learning
Reinforcement learning
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< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	K	민찬호			
2	Classification and Regression	K	민찬호			
3	Classification and Regression	K	민찬호			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Classification and Regression	K	민찬호			
5	Neural Network	K	민찬호			
6	Neural Network	K	민찬호			
7	Neural Network	K	민찬호			
8	Mid-term	K	민찬호			
9	RL	K	민찬호	프로젝트 제안발표		
10	RL	K	민찬호			
11	Clustering	K	민찬호			
12	Dimensionality reduction	K	민찬호			
13	Random Tree	K	민찬호			
14	Random Forest	K	민찬호			
15	other method	K	민찬호	프로젝트 최종발표		
16	Final	K	민찬호			

11. Other items of notification

없음

Introduction to International Relations

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td colspan="2">전필(3/3)</td><td>Course code</td><td>K095</td></tr>
<tr><td>Target students Division/major/grade</td><td colspan="2">정치외교학과/1학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td colspan="2">월D(율257) 목D(율257)(율257)</td><td>English Grade</td><td>A(100%English)</td></tr>
</table>

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">김명철 (조교수/사회과학대학 정치외교학과)</td></tr>
<tr><td>Office Room Number</td><td>율곡관512</td><td>Office phone Number</td><td>2744</td><td>e-mail</td></tr>
<tr><td>Office hours</td><td>TBA and by appointment</td><td>Homepage address</td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
</table>

1. Introduction

This course is an introduction to the study of international relations. The purpose of the course is to provide a theoretical and historical basis for analyzing and understanding international relations. The major topics of this course are interstate war, international political economy, human right practices, and other current global conflicts including terrorism, environmental degradation, and nuclear proliferation. We will discuss the nature of the international system, the causes of international conflicts and the difficulties faced by states as well as non-state actors in establishing cooperation and resolving conflicts. We will also consider political dimensions of the international trade, financial, and monetary relations.

2. Course Objectives

The course will prepare you for more advanced classes in international relations. And it will also help you develop analytical skills to understand current world events.

3. Class types and activities

Lecture and Discussion

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☑	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☑	PBL(Problem Based Learning)	☑	CBL(Case Based Learning)
☑	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5%	
midterm exam		30%	
final exam		40%	
quiz			
presentation			
discussion		5%	
homework		15%	
etc		5%	Group Study
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World Politics: Interests, Interactions, Institutions	Jeffry A. Frieden, David A. Lake, and Kenneth A. Schultz	W. W. Norton	2018
Sub	All other readings will be posted on the Ajou Bb			

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction: Understanding International Relations	E	김명철			Friden, Lake, Schultz (Hereafter, FLS) Introduction

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	History and Theory	E	김명철			FLS Chp. 1; Stephen Walt; Jack Snyder
3	Analytical Models (Approaches)	E	김명철			FLS Chp. 2; Alex Wendt
4	War at the Systemic Level	E	김명철			FLS Chp. 3; Mearsheimer and Walt
5	Domestic Politics and War	E	김명철			FLS, Chp. 4
6	International Institutions and War	E	김명철			
7	International Trade	E	김명철			
8	Midterm Exam	E	김명철			
9	International Financial Relations	E	김명철			
10	International Monetary Relations	E	김명철			
11	Development and the Global Commons	E	김명철			
12	Transnational Advocacy Groups	E	김명철			
13	International Law, Norms and Human Rights	E	김명철			
14	Terrorism and New Security Threat	E	김명철			
15	Nuclear Proliferation and the Rise of New Global Rivalry	E	김명철			
16	Final Exam	E	김명철			

11. Other items of notification

Introduction to the English Linguistics

Course Name	Course type (credit/hours)	전필(3/3)	Course code	J048
	Target students Division/major/grade	영어영문학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화C(다205-B) 금C(다205-B)(다205-B)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	백현아 (조교수/인문대학 영어영문학과)		
	Office Room Number	다산관 222호	Office phone Number		e-mail	
	Office hours	W 2-3pm (By appointment)	Homepage address	https://sites.google.com/view/hyunahbaek/home
Teaching Assistant	Name (title/division)			
	Office Room Number		Office phone Number		e-mail	

1. Introduction

What is language and why do we have language? This course offers a basic introduction to the science of linguistics, a study of how human language works. Our main questions include:
- What is the nature of human language that distinguishes it from other non-human communication systems?
- What does a native speaker of a language actually know?
- What are the structural units of language?
- How do languages vary? Do they share any universal properties?

By the end of this course, students will be able to:
- explain the main properties of human language.
- describe the major linguistic structures of English and how they relate to linguistic theory.
- investigate linguistic data and analyze them.
- develop strong problem-solving skills in linguistics.

2. Course Objectives

3. Class types and activities

- Attendance: Students are expected to come to class on time having read assigned chapters and ready for discussion.
- Quizzes: We will have four quizzes throughout the semester, focusing on what has been covered in class. Each quiz will give a maximum of 5 points, adding up to 20.
- Midterm and Final exams: We will have two exams through the semester (exact dates TBA)

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☑	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

Advanced proficiency in English
Analytic problem-solving skills
English discussion and presentation skills

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	For each class: On time = 10, Late = 5, Absent = 0
midterm exam		30	TBA
final exam		40	TBA
quiz	4	20	5 points * 4 quizzes = 20 points
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	An Introduction to Language (11th ed.)	Fromkin, Rodman & Hyams	Cengage	2018

10. Class system and Class shedule

Throughout the course, we will examine the core subfields of linguistics including morphology, syntax, semantics, phonetics, and phonology. We will also learn how humans acquire language. What students learn through this course will give them a new perspective on language and prepare them for more advanced courses in linguistics.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	E	백현아			Ch 1
2	Morphology: words and morphemes	E	백현아			Ch 2
3	Morphology: word formation, morphological analysis	E	백현아			Ch 2
4	Syntax: sentences and phrases	E	백현아			Ch 3

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Syntax: grammatical dependencies	E	백현아			Ch 3
6	Semantics: compositional semantics	E	백현아			Ch 4
7	Semantics: lexical semantics	E	백현아			Ch 4
8	Midterm exam	E	백현아			
9	Phonetics: articulation of sounds	E	백현아			Ch 5
10	Phonetics: phonetic classes	E	백현아			Ch 5
11	Phonology: phonemes	E	백현아			Ch 6
12	Phonology: phonological rules, prosodic phonology	E	백현아			Ch 6
13	Language acquisition: child language acquisition	E	백현아			Ch 9
14	Language acquisition: second language acquisition	E	백현아			Ch 9
15	Review	E	백현아			
16	Final exam	E	백현아			

11. Other items of notification

Korean Capital market and Accounting

Course Name	Course type (credit/hours)	전선(3/3)	Course code	I030
	Target students Division/major/grade	no limitations, nor specific conditions imposed./	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월D(연암507) 목D(연암507)(연암507)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	Accounting Principles (Not mandatory)
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Sangil Kim			
	Office Room Number	Dasan Hall 527	Office phone Number	3633	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail	wonyh0905@ajou.ac.kr

1. Introduction

This course focuses on real-life cases and issues related to accounting in both domestic and international companies in the context of the Korean capital market. The goal is to enhance insights into the Korean capital market, accounting, auditing, tax laws, and other relevant social issues, moving beyond the transmission of fragmented knowledge and rote learning. The primary target audience consists of non-English speaking foreign students interested in the Korean market and corporate issues. Korean students who wish to study the topics in English are also welcome to participate in the course. Topics are Korean chaebols such as Samsung, LG, and Hyundai, as well as the Korean wave entertainment industry, corporate governance, market structure, regualtion and market auditing conditions. population changes in Korea, climate change & ESG disclosure, post-Covid financial and tax policies, and other related topics. The course content is designed to be accessible to students from various majors, including those who may have limited knowledge of accounting, allowing them to easily engage with the material using only the basic understanding of accounting principles.

cf. We recommend not printing this course syllabus for reference. On the day of the course commencement, a two-page A4 course syllabus will be distributed.

2. Course Objectives

3. Class types and activities

The course is divided into two segments, each lasting 75 minutes, with the following breakdown:

First Half (75 minutes):
Professors Lecture: During this period, the professor delivers the lecture on the designated topic.
Individual Discussion and Critique Sharing: Students engage in individual discussions and share their critiques, providing feedback and insights on the lecture or any related materials.

Second Half (75 minutes):
Group Discussion: Students participate in group discussions on three specific topics.
Submission of Results Sheet: After the group discussion, each group submits a results sheet containing the following:
a) Answers to the common questions proposed by the professor. b) Group-specific questions and their corresponding answers. c) Any additional comments or observations.
This structure allows for both individual and collaborative learning experiences, promoting active engagement and diverse perspectives within the course.

4. Teaching Method

[V]	lecture	[V]	discussion and debate
[V]	team project(presentation and case studies)	[ ]	experiments(role-playing,etc)
[ ]	designing and production	[ ]	on-site learning(on-site training)
[ ]	others		

5. Support Systems in Use

[V]	e-class	[ ]	automatic recording system	[ ]	web-based assignment
[ ]	cyber lecture	[ ]	blended learning(combination of online and offline teaching)		
[ ]	class behavior analyazing system	[ ]	others		

6. Teaching Tools

[ ]	PBL(Problem Based Learning)	[V]	CBL(Case Based Learning)
[ ]	TBL(Team Based Learning)	[ ]	others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	Minus 1 point for each missed class.
midterm exam		15	Take-home exam. No class in mid-term exam period
final exam		35	Around 10 questions for selected 5 topics. Most of questions come from class lecture.
quiz			
presentation			
discussion		20	Individual and group discussion.
homework		20	By-weekly critiques of total 7 times. Individual-level assignment.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	The course materials will consist of web-based free contents as case articles, YouTube files, or News articles etc.			

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	E	김상일			
2	K-IRFS	E	김상일			
3	Korean Chaebol	E	김상일			
4	Auditing in Korean Market	E	김상일			
5	Pandemic & Economics	E	김상일			
6	Corporate Governance	E	김상일			
7	Jaws of the Snake	E	김상일			
8	Mid-term Exam (take-home)	E	김상일			
9	Stock Valuation	E	김상일			
10	Financial Ratio Analyses & Stock Investment	E	김상일			
11	Population & Labor Cost	E	김상일			
12	Taxation in Korea	E	김상일			
13	ESG disclosure	E	김상일			
14	Evaluation & BSC	E	김상일			
15	Accounting Research	E	김상일			
16	Final Exam	E	김상일			

11. Other items of notification

Linear Algebra 1

Course Name	Course type (credit/hours)	교필(3/3)	Course code	F001
	Target students Division/major/grade	국방디지털융합학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(연암508) 목B(연암508)(연암508)	English Grade	A(100%English)

Reference to this course	Prerequisite courses		
	Related basic courses	공업수학	
	Recommanded concurrent courses		
	Related advanced courses	자동제어	

Instructor	Name (title/division)	박종호 (조교수/소프트웨어융합대학 국방디지털융합학과)			
	Office Room Number	연암관 616호	Office phone Number	3676	e-mail
	Office hours	추후 공고	Homepage address	https://sites.google.com/ajou.ac.kr/parkjo05	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

2. Course Objectives

Linear system의 solution, matrix의 성질, subspace들간의 관계, determinant, inverse, eigenvalues/vectors의 성질 등에 대한 이해를 목표로 한다.

3. Class types and activities

4. Teaching Method

☑ lecture	☐ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

기초 수리력

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		18%	결석 8회 초과: F 학점 자동 부과
midterm exam	1회	32%	
final exam	1회	32%	
quiz			
presentation			
discussion			
homework	2회	18%	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Introduction to Linear Algebra, 5th Edition	Gilbert Strang	Cambridge press	2016

10. Class system and Class shedule

구체적인 체계는 다음과 같다.

(1) Matrix and its properties (including factorization)
(2) Geometry of linear equation and its solution
(3) Four fundamental subspaces
(4) Gram-Schmidt, Cramers rule
(5) 응용: Projection, volume, power, Markov matrix

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction, geometry of linear equations	E	박종호	강의		
2	Elimination with matrices	E	박종호	강의		
3	Multiplication and inverse matrices	E	박종호	강의		
4	Factorization into A=LU	E	박종호	강의		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Spaces	E	박종호	강의		
6	Null space	E	박종호	강의		
7	Complete solution to Ax=b	E	박종호	강의		
8	- 중간고사 기간 -	E	박종호	중간고사	지필평가	
9	Independence, basis, and dimension	E	박종호	강의		
10	Four fundamental subspaces, matrix spaces	E	박종호	강의		
11	Orthogonal vectors and subspaces	E	박종호	강의		
12	Projections, orthonormal bases and Gram-Schmidt	E	박종호	강의		
13	Determinant properties, formulas, and Cofactors	E	박종호	강의		
14	Cramers rule, inverses, and volume	E	박종호	강의		
15	Eigenvalues and eigenvectors	E	박종호	강의		
16	- 기말고사 기간 -	E	박종호	기말고사	지필평가	

11. Other items of notification

- 출석, 시험, 과제 등에 대한 부정행위가 있을 경우, 경중에 따라 평가에 불이익을 주거나 상벌위원회에 회부할 수 있습니다.
- 과제 카피 시 제공자와 카피 당사자 모두 동일한 패널티 적용
- 부정행위를 발견한 사람은 누구든 신고 가능 (증거 제시)

Marketing Management

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I048
	Target students Division/major/grade	경영학부/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(연암102) 목B(연암102)(연암102)	English Grade	A(100%English)

Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)			이병덕 (교수/경영대학 경영학과)		
	Office Room Number	다산관 417-1	Office phone Number	3630	e-mail	
	Office hours	금 2:00 - 5:00 PM	Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course provides an introduction to marketing. The course is not designed only for the students who specialize in marketing, but all other students with interests in business as well. Students will learn key marketing persepectives, terms, fundamental concepts, and principles, mainly by conducting research for themselves and participating into classroom discussions with other students. The objective is to provide you with knowledge of the roles that marketing plays within organizations and society. You will also gain an understanding of how marketing theories, strategies, and tactics influence customers and the organization. After completing this course, you should be able to:
1.analyze how trends and environmental factors influence marketing strategies,
2.analyze how customers make purchase decisions,
3.collect and use marketing data in making marketing decisions,
4.develop marketing plans and strategies.

2. Course Objectives

본 강의는 수강생들에게 마케팅이란 무엇이며, 마케팅이 우리 사회와 조직, 그리고 수강생 본인들에게 어떠한 의미가 있고, 어떠한 역할을 하고, 어떠한 가치가 있는지, 교재와 실제 사례를 통해 이해하고, 그 이해를 바탕으로 마케팅을 현실문제 해결에 적용하는 능력을 기르는데 그 목적이 있습니다. 수강생들은 본 강의를 통해 마케팅의 기본 용어들과, 중요 개념들, 그리고 일반적인 원리에대해 배우게 됩니다. 또한 수강생들은 어떻게 마케팅 이론과 전략, 그리고 전술들이 구매자와 조직에 어떠한 영향을 주는 지를 이해하게 됩니다. 따라서, 본 강의 수강 이후에 학생은 다음과 같은 능력을 함양하길 기대합니다:
1.중요한 마케팅 환경요인들은 무엇이며 그것들의 변화가 어떻게 전략 수립에 영향을 주는 지를 분석하고 이해합니다.
2.목표 고객들이 어떻게 의사결정을 하는 지를 분석합니다.
3.마케팅 의사결정에 어떠한 정보가 필요하며 어떻게 수집할 것인가를 이해합니다.
4.성공적이고 지속가능한 마케팅 전략을 수립합니다.

3. Class types and activities

The course will involve lectures, inclass discussions, homeworks, and exams. Each student is expected to come to class ready, willing and able to discuss the materials assigned for each day.

HOMEWORK ASSIGNMENTS
There are 12 homework assignments during the semester. Students are expected to conduct research on the topics given in each assignment. Research questions will be posted on blackboard and will be discussed in class. Students should also turn in their own individual homework report before class on the due date. Prepare two copies of the report: one for submission and one for discussion in class. Please adhere to the page limit if any (page limit does not include tables and appendices) and be specific when you answer the questions. Each homework assignment accounts for 3% of your final grade. Note that assignment reports will be accepted only from the students who attend the class on the due date (late submission will not be accepted). Your report will be returned in class after grading. Unclaimed reports will be shredded a week later. Every assignment must be an individual work.

EXAMS
You will have midterm and final exams during the semester. The exams will be given during the regular exam periods and will test your understanding of the materials covered in class as well as in the textbook. They will be "closed book" tests. Each test consists of true/false and multiple-choice questions (subject to change). Under no circumstances will any make-up test be administered. The only exception to this policy is a prior notification of and approval by the instructor, based on subsequent acceptable documentation of serious illness (e.g., hospitalization or quarantine) and/or an family emergencies. In the case of a make-up test, the test should be taken within a week after the scheduled date of the original test. Each exam accounts for 20% of the final grade.

CLASS PARTICIPATION
Your constructive participation in class activities is a critical component of the educational experience. Inclass participation will include, but will not be limited to, discussions of readings and homework assignments, as well as interactions with other students both in and outside the classroom. Students must come to the sessions and be ready for inclass discussions. Students are expected to take the full responsibility of their absence even though their attendance will not checked and recorded. Your participation to each homework discussion will account for 2% of your final grade.

FINAL GRADE
There is no extra credit assignment. So, your grade is strictly based on your scores on 12 homework assignments, two exams, and class participation. I apply a bell curve grading. Using the weights for each assignment, I will compute the weighted average and assign grades following the university grade guideline.
Midterm Exam 20%
Final Exam 20%
12 Homework Assignment 36% (3% each)
12 Homework Discussion 24% (2% each)
Total 100%

4. Teaching Method

[V] lecture	[V] discussion and debate
[V] team project(presentation and case studies)	[ ] experiments(role-playing,etc)
[ ] designing and production	[ ] on-site learning(on-site training)
[ ] others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1	20	
final exam	1	20	
quiz			
presentation			
discussion	12	24	
homework	12	36	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Principles of Marketing, 18th ed.	Kotler, P. and G. Armstrong	Prentice Hall.	2020

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Marketing Concept	E	이병덕			
2	Strategic Marketing Process	E	이병덕			
3	Marketing Environments	E	이병덕			
4	Consumer Decision Making I	E	이병덕			
5	Consumer Decision Making II	E	이병덕			
6	Consumer Decision Making III	E	이병덕			
7	Market Segmentation, Targeting, & Positioning	E	이병덕			
8	Midterm Exam	E	이병덕			
9	Product Concepts	E	이병덕			
10	Branding	E	이병덕			
11	New Product Development	E	이병덕			
12	Concepts in Marketing Channels	E	이병덕			
13	Retailing	E	이병덕			
14	Concepts in Marketing Communication	E	이병덕			
15	Avertising & Sales Promotions	E	이병덕			
16	Final Exam	E	이병덕			

11. Other items of notification

Molecular Biology

Course Name	Course type (credit/hours)	전선(3/3)	Course code	G074
	Target students Division/major/grade	생명과학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화C(성133) 금C(성133)(성133)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	Cell Biology, Genetics, Biochemistry
	Related basic courses	Introductory Biology 1 & 2, Chemistry 1
	Recommanded concurrent courses	Biological Experiment IV
	Related advanced courses	Genetic Engineering, Bioinformatics, Molecular Genetics

Instructor	Name (title/division)		Soon-Ki Han (Biological Science)		
	Office Room Number	Paldal hall 329	Office phone Number		e-mail
	Office hours	by appointment		Homepage address	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course is to provide students with a comprehensive understanding of the fundamental principles and techniques used in studying the structure, function, and interactions of biological molecules at the molecular level. Molecular biology is a field that explores the molecular basis of life, including the mechanisms of genetic information storage, replication, transcription, and translation. It covers various topics, including DNA structure and function, transcription, processing of transcripts, organization of genes, chromatin, DNA replication, DNA repair and translation, protein synthesis and folding, genetic engineering, recombinant DNA technology, and molecular techniques. The course also aims to familiarize students with the key concepts and experimental approaches used in molecular biology research.

2. Course Objectives

3. Class types and activities

- Students will learn basic principle first, mainly from textbooks, and then study molecular biology in depth by analyzing and reasoning about the main experimental principles and results of molecular biology.
- The latest trends and research results in molecular biology also will be introduced.
- On the day before each lecture (at the latest), a copy of the lecture notes/slides (in pdf format) will be uploaded to the bb.
- Most lectures start with a brief overview (~10 minute) of the material covered in the previous class.

4. Teaching Method

- [V] lecture
- [ ] discussion and debate
- [ ] team project(presentation and case studies)
- [ ] experiments(role-playing,etc)
- [ ] designing and production
- [ ] on-site learning(on-site training)
- [ ] others

5. Support Systems in Use

- [V] e-class
- [ ] automatic recording system
- [ ] web-based assignment
- [ ] cyber lecture
- [ ] blended learning(combination of online and offline teaching)
- [ ] class behavior analyazing system
- [ ] others

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] CBL(Case Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

A basic knowledge at the level of introductory biology is absolutely necessary. Knowledge of biochemistry and genetics is a great help in learning.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	1~2 times absence: -1 points, 3~4 times absence: -2 points, 5~6 times absence: -3 points, 7 times absence: -4 points, 8 times absence: F
midterm exam		40	
final exam		40	
quiz			
presentation		10	All students are required to give a 5-minute presentation once a semester.
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Molecular Biology of the Gene, 7th edition	James D. Watson et al.,	Pearson	2014
Sub	왓슨분자생물학 7판 (번역서)	James D. Watson et al.,	(주)바이오사이언스출판	2014
Ref.	Lecture notes			

10. Class system and Class shedule

Lectures will cover the basic theories of molecular biology, and two students will give presentations in each class to study and introduce relevant issues and theories related to molecular biology.
In Weeks 1 and 2, lecture will review the material from the prerequisite course and learn more about nucleic acids and proteins, which are macromolecules that are key to the storage and expression of genetic information.
In Week 3, lecture will cover the structure of the genome and chromatin.
In Weeks 4-7 DNA replication, repair, and recombination will be covered.
In Week 8, through a midterm exam, learning material from Weeks 1-7 will be tested.
Weeks 9 through 15, lecture will cover the mechanisms of expression and regulation of expression, and transcriptional regulation in prokaryotes and eukaryotes.
In week 16, through a final exam, learning material from Weeks 9-15 will be tested.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction, Chapter 4, The structure of DNA	E	한순기	Lecture		
2	Chapter 5/ 6, The structure of RNA and Protein	E	한순기	Lecture		
3	Chapter 8, Genome structure, chromatin, and Nucleosome	E	한순기	Lecture		
4	Chapter 9., The replication of DNA	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
5	Chapter 10, The Mutability and Repair of DNA	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
6	Chapter 11, Homolog Recombination and Transposition of DNA	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
7	Chapter 12, Site-Specific Recombination at the Molecular Level	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
8	Mid-term exam	E	한순기			
9	Chapter 13, Mechanism of Transcription	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
10	Chapter 14, RNA Splicing	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
11	Chapter 15, Translation	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
12	Chapter 16, Genetic Codes	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
13	Chapter 18, Transcriptional Regulation in Prokaryotes	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
14	Chapter 19, Transcriptional Regulation in Eukaryotes	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
15	Chapter 20, Regulatory RNAs	E	한순기	Lecture & presentation	Content relevance and slide prep	student presentation (1~2)
16	Final Exam	E	한순기			

11. Other items of notification

Course Name	Course type (credit/hours)	전필(3/3)	Course code	F056
	Target students Division/major/grade	소프트웨어학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화D(팔1025) 목C(팔1025)(팔1025)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	Computer programming, data structure, system programming		
	Related basic courses	Computer architecture		
	Recommanded concurrent courses			
	Related advanced courses	Advanced Operating Systems, Advanced Computer Architecture		

Instructor	Name (title/division)	HAMANDAWANA PRINCE (조교수/소프트웨어융합대학 소프트웨어학과)			
	Office Room Number	Sanhak Building Office 822	Office phone Number		e-mail
	Office hours	Appointment via email	Homepage address		https://sites.google.com/view/princehamandawana/home
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

Operating systems are system software that abstracts and manages resources such as CPU, memory, storage, and I/O devices that make up a computer system into concepts such as process, thread, virtual memory, and file, while making these resources convenient and efficient for users and programs. To this end, the operating system has an organically combined structure of several modules responsible for process management, memory management, file management, device management, etc.

In this course, we will first look at what the operating system is and the various concepts of system software. Students will learn how the operating system manages each system resource, and how to solve the problems and solutions that arise in the process.

2. Course Objectives

* 교육목표
운영체제에 대한 이해를 바탕으로 시스템 소프트웨어에 대한 근본 문제점과 해결 기법을 파악하고, 이를 바탕으로 고급 소프트웨어의 창작 및 개발 능력을 갖추도록 한다.

* 학습성과
(1) 운영체제의 기능을 이해한다.

(2) 운영체제의 구조를 이해한다.

(3) 운영체제의 주요 서브시스템에서 나타나는 문제점을 이해하고 이를 해결하는 기법을 이해한다.
  - Synchronization 및 해결 기법
  - Mutual exclusion
  - Deadlock, starvation 현상
  - Process scheduling
  - Memory 관리 기법
  - Storage 및 file systems 기법
  - I/O devices의 효율적 이용 기법

(4) 이해된 운영체제 내의 해결 기법을 바탕으로 응용 프로그램의 설계/개발할 수 있다.

3. Class types and activities

The class type will be lecture based with visual cues. Questioning is allowed in between the lecture period both from the instructor and the students.
After class assignments will also be given to students as form of continuous assessment and tracking student understanding of the concepts.

The assignments are going to be individual based and in C programming language.
* students should have good knowledge of using git repository.

4. Teaching Method

☑ lecture		☑ discussion and debate
☐ team project(presentation and case studies)		☐ experiments(role-playing,etc)
☐ designing and production		☐ on-site learning(on-site training)
☐ others		

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☑ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☑ others (gitlab 및 PASubmit을 통한 프로그래밍 과제)	

6. Teaching Tools

☑ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

* In order to complete this course, you must have the basic knowledge and tools listed below.

Students who have not completed at least one of the following courses: data structures or computer programming or system programming are not highly recommended to take this class.

* Even if you didnt previously enroll the computer architecture course, it is not a problem to enroll in this course..

* Essential Basic Knowledge
- C programming: Ability to read and analyze source code
- Data structure
- System programming concepts including processes

* Tools and Manipulation Capabilities
- Programming technology through Linux command line interface

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Attendance and class participation
midterm exam	1	20%	
final exam	1	30%	
quiz			
presentation			
discussion			
homework	4	40	4 Individual programing projects
etc			
study hours	6시간		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Operating System Concepts (10th edition)	Avi Silberschatz	Wiley	2018
Sub	Operating Systems: Three Easy Pieces	Remzi H. Arpaci-Dusseau and Andrea C. Arpaci-Dusseau	Arpaci-Dusseau Books	2018

10. Class system and Class shedule

As in all fields, when you accurately understand the motivation of the problem and the phenomenon it causes, you can understand how to solve the problem with great ease. This is the case with the operating system. In order to achieve the goal of the class, first of all, it is necessary to accurately understand the core of the problem being addressed by the operating system, and to understand the solution method and its application based
on the understanding. Based on this point, the class is conducted by repeating the following order.

1) Starting a new topic, the definition of the problem and the phenomenon arising from the problem are broadly explained.
2) Next, we introduce the techniques proposed to solve the problem.
3) Explain how the introduced techniques are implemented and used to provide specific applications of the solution.
4) The proposed solutions must be described, applied, and implemented in your own systematic way using methods learnt in class for students to develop and own the skillset.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Class introduction / overview	E	HAMANDAWANA PRINCE	강의		
2	Opearting System Structures	E	HAMANDAWANA PRINCE	강의		
3	Process concepts	E	HAMANDAWANA PRINCE	강의		
4	Threads and Concurrency	E	HAMANDAWANA PRINCE	강의		
5	CPU scheduling	E	HAMANDAWANA PRINCE	강의		
6	CPU scheduling	E	HAMANDAWANA PRINCE	강의		
7	Synchronization	E	HAMANDAWANA PRINCE	강의		
8	Midterm exam	E	HAMANDAWANA PRINCE	시험		
9	Synchronization	E	HAMANDAWANA PRINCE	강의		
10	Memory management	E	HAMANDAWANA PRINCE	강의		
11	Virtual memory system	E	HAMANDAWANA PRINCE	강의		
12	Virtual memory system	E	HAMANDAWANA PRINCE	강의		
13	Mass-storage structure	E	HAMANDAWANA PRINCE	강의		
14	I/O Systems	E	HAMANDAWANA PRINCE	강의		
15	File-Systems	E	HAMANDAWANA PRINCE	강의		
16	Final exam	E	HAMANDAWANA PRINCE	시험		

11. Other items of notification

N/A

<h1 style="text-align:center">Operations Management</h1>

Course Name	Course type (credit/hours)	전필(3/3)		Course code	I040
	Target students Division/major/grade	경영학부/경영학전공 2학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	수D(다B106) 금D(다B106)(다B106)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	계량경영, 통계학
	Related basic courses	계량경영,통계학
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		이창환 (교수/경영대학 경영학과)		
	Office Room Number	다422	Office phone Number	2911	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

2. Course Objectives

Specifically, we will discuss (1) basic concepts of business processes and management strategy, (2) key process measures and their relationships, (3) the effect of uncertainty in flows on the process performance, and (4) synchronization of flows of materials and information.

3. Class types and activities

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

Lecture Notes/Courseware: The outline of lecture notes (mostly in Powerpoint files) and Excel data files necessary for the analyses of examples and cases will be available at http://biz.ajou.ac.kr.with Download Password: 2911. The file with heading (0) denotes initial entry, and the file with heading (M) represents modified entry.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5%	
midterm exam	1	45%	
final exam	1	45%	
quiz			
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Managing Business Process Flows (MBPF)	Ravi, A., S. Chopra, S. D. Des	printice Hall	2006

10. Class system and Class shedule

Basically, the class instructional format will be a dialogue between the students and the instructor. It is important to note that strong class participation is founded on adequate preparation. You will be expected to have thoroughly reviewed the material on every class subjects prior to its discussion in class. When you are prepared, the class discussion is greatly enhanced and everyone including me learns far more than otherwise.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Processes and Strategy :Introduction		이창환			
2	Products and Processes Process Flow Measures		이창환			
3	Process Flow Measures Three Key Operational Measures Little's Law and Applications Analyzing Income Statement		이창환			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Flow Time Analysis Critical Path Method Application: Kristen's Cookie Co		이창환			
5	Uncertain Activity Times		이창환			
6	Flow Rate Analysis Capacity Measurements Product Mix Decisions Linear Programming LP in a Spreadsheet		이창환			
7	Midterm Test		이창환			
8	Inventory Analysis Inventory Basics, EOQ Price Discounts: Forward Buying		이창환			
9	Safety Inventory Safety Stock & Service Level Effect of Centralization Supply Chain Coordination		이창환			
10	Safety Capacity Capacity Analysis		이창환			
11	Queuing Models Variance Propagation		이창환			
12	Queuing Models Variance Propagation		이창환			
13	Queuing Models Variance Propagation		이창환			
14	Process Integration Synchronization & Improvement		이창환			
15	Business Ethics In Operations		이창환			
16	Final Exam		이창환			

11. Other items of notification

Operations Management

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I041
	Target students Division/major/grade	경영학부/경영학전공 2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	수F(다B106) 금F(다B106)(다B106)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	계량경영, 통계학		
	Related basic courses	계량경영,통계학		
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)		이창환 (교수/경영대학 경영학과)		
	Office Room Number	다422	Office phone Number	2911	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

2. Course Objectives

Specifically, we will discuss (1) basic concepts of business processes and management strategy, (2) key process measures and their relationships, (3) the effect of uncertainty in flows on the process performance, and (4) synchronization of flows of materials and information.

3. Class types and activities

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

Lecture Notes/Courseware: The outline of lecture notes (mostly in Powerpoint files) and Excel data files necessary for the analyses of examples and cases will be available at http://biz.ajou.ac.kr.with Download Password: 2911. The file with heading (O) denotes initial entry, and the file with heading (M) represents modified entry.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5%	
midterm exam	1	45%	
final exam	1	45%	
quiz			
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Managing Business Process Flows (MBPF)	Ravi, A., S. Chopra, S. D. Des	printice Hall	2006

10. Class system and Class shedule

Basically, the class instructional format will be a dialogue between the students and the instructor. It is important to note that strong class participation is founded on adequate preparation. You will be expected to have thoroughly reviewed the material on every class subjects prior to its discussion in class. When you are prepared, the class discussion is greatly enhanced and everyone including me learns far more than otherwise.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Processes and Strategy :Introduction		이창환			
2	Products and Processes Process Flow Measures		이창환			
3	Process Flow Measures Three Key Operational Measures Little's Law and Applications Analyzing Income Statement		이창환			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Flow Time Analysis Critical Path Method Application: Kristen's Cookie Co		이창환			
5	Uncertain Activity Times		이창환			
6	Flow Rate Analysis Capacity Measurements Product Mix Decisions Linear Programming LP in a Spreadsheet		이창환			
7	Midterm Test		이창환			
8	Inventory Analysis Inventory Basics, EOQ Price Discounts: Forward Buying		이창환			
9	Safety Inventory Safety Stock & Service Level Effect of Centralization Supply Chain Coordination		이창환			
10	Safety Capacity Capacity Analysis		이창환			
11	Queuing Models Variance Propagation		이창환			
12	Queuing Models Variance Propagation		이창환			
13	Queuing Models Variance Propagation		이창환			
14	Process Integration Synchronization & Improvement		이창환			
15	Business Ethics In Operations		이창환			
16	Final Exam		이창환			

11. Other items of notification

Operations Management

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I044
	Target students Division/major/grade	경영학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(다111) 목A(다111)(다111)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	김진학 (조교수/경영대학 경영학과)		
	Office Room Number		Office phone Number	e-mail
	Office hours		Homepage address	
Teaching Assistant	Name (title/division)			
	Office Room Number		Office phone Number	e-mail

1. Introduction

In this course, we delve into the study of business process management, which focuses on the transformation of inputs into outputs. The scope of these processes encompasses not only physical products but also services. A primary objective of process management is to effectively fulfill customer needs. Throughout the course, we explore various activities and the flow of materials and information within a network that comprises buffers. In relation to this, the course covers several key topics in process management, including (1) the conceptual understanding of business processes and management strategies, (2) the evaluation of key performance indicators and their interrelationships in process management, (3) the influence of uncertain flows on process performance, and (4) the synchronization of material and information flows.

2. Course Objectives

기업환경에서 활용할 수 있는 경영학의 기초 및 전공지식을 이해한다.

3. Class types and activities

The classes are structured with lectures, discussions, and exercises. The course topics are initially presented through lectures, supported by audiovisual materials when necessary, to enhance comprehension of the lecture content. In order to foster discovery-based learning, the traditional one-sided lecture format is minimized, and discussions are employed to extract the key concepts from the lectures. These discussions occur in both one-to-many formats between the professor and students, as well as in small-group settings among students. For topics involving calculations and computer usage, supplementary handouts are provided to aid students in understanding the content. Creating an environment where students feel comfortable asking questions and engaging in dialogue is one of the objectives, with the aim of maximizing their understanding of the course material. All course-related materials are distributed through Ajou Bb.

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [V] blended learning(combination of online and offline teaching)
- [ ] others
- [V] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

고등학교 수준의 기본적인 수학적 지식과 더불어 Microsoft Excel의 주요 기능이 요구된다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1	30	
final exam	1	40	
quiz	15	30	
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Managing Business Process Flows (MBPF) 3rd ed.	Ravi Anupindi et al.	Pearson	2012

10. Class system and Class shedule

생산운영관리의 핵심은 프로세서이다, 프로세서란 제품의 생산 과정을 투입과 산출의 개념으로 이해하고 분석한다. 따라서 프로세서의 흐름을 측정하고 이를 바탕으로 비용을 최소화하는 방안을 고민하는 것이 생산운영관리에서 배우는 주요한 내용이다. 따라서 이 수업의 전반부에는 프로세서의 흐름을 구조화하고 이를 수치화하는 개념을 배운다. 그리고 수업의 후반부에는 생산비용의 최소화를 위한 재고관리에 대하여 다룬다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Processes and Strategy: Introduction	K	김진학	Lecture		
2	Products and Processes, Process Flow Measures	K	김진학	Lecture		
3	Process Flow Measures, Analyzing Income Statement	K	김진학	Lecture		
4	Flow Time Analysis	K	김진학	Lecture		
5	Uncertain Activity Times	K	김진학	Lecture		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	Flow Rate Analysis, Linear Programming	K	김진학	Lecture		
7	Midterm Test	K	김진학	Test		
8	Inventory Analysis	K	김진학	Lecture		
9	Safety Inventory, Effect of Centralization	K	김진학	Lecture		
10	Safety Capacity	K	김진학	Lecture		
11	Queuing Models, Variance Propagation	K	김진학	Lecture		
12	Queuing Models, Variance Propagation	K	김진학	Lecture		
13	Queuing Models, Variance Propagation	K	김진학	Lecture		
14	Process Integration, Synchronization, and Improvement	K	김진학	Lecture		
15	Business Ethics in Operations	K	김진학	Lecture		
16	Final Exam	K	김진학	Test		

11. Other items of notification

Organizational Behavior

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I013
	Target students Division/major/grade	2,3,4학년/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(다B108) 수C(다B108)(다B108)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	Only offered to sophomore and above.		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)		김도영 (교수/경영대학 경영학과)		
	Office Room Number	다522	Office phone Number	2914	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course emphasizes an empirical approach to the study of individual and group behavior within the context of the organization and as affected by a wide array of emerging organizational realities. It provides current and emerging theoretical and practical knowledge for understanding topics such as individual differences (personality), research methods, perception, motivation, job satisfaction and organizational commitment, leadership, and managerial decision-making. The major objective of this course is to understand basic organizational behavior concepts and research, models, and moving from individual behavior to the group and to the organization as a whole.

2. Course Objectives

The major objective of this course is to understand basic organizational behavior concepts and research, models, and moving from individual behavior to the group and to the organization

3. Class types and activities

Reading assignments
Class discussion/lecture will be based upon the readings listed in this syllabus for each day and will extend the materials from time to time. Each class requires a high degree of participation. Therefore, it is critical that you complete the reading assignment before class so that you will understand the material presented in class and can contribute to the discussion if it happens.

Class Notes
Course notes are available for lectures prepared by the instructor. These course notes are NOT a replacement for your own notes; they are meant to help you organize your notes and keep up with the lecture. There will be many details discussed in class and textbook that will not be included on the notes, and you will be responsible for these details on the exam.

4. Teaching Method

- [V] lecture
- [V] discussion and debate
- [V] team project(presentation and case studies)
- [V] experiments(role-playing,etc)
- [ ] designing and production
- [ ] on-site learning(on-site training)
- [ ] others

5. Support Systems in Use

- [V] e-class
- [ ] automatic recording system
- [ ] web-based assignment
- [ ] cyber lecture
- [ ] blended learning(combination of online and offline teaching)
- [ ] class behavior analyazing system
- [ ] others

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] CBL(Case Based Learning)
- [V] TBL(Team Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		25%	약 1시간 10분 가량 진행되며 중간고사의 경우 40~50개의 객관식, T/F, 단답형 문제
final exam		30%	기말고사는 60~70개의 객관식 문제가 그동안 수업시간에 배운 강의 및 주교재, 부교재 내용에서 출제된다. 기말고사의 시험범위는 누적되어 기존의 중간고사 범위에서 약 30%, 중간고사 이후 범위에서 나머지 70%가 출제된다.
quiz		15%	학생들의 지속적이고 꾸준한 학습을 돕기 위해 마련한 방법이다. 수업시간에 다루는 내용이 교재의 상당 부분을 포함하기 때문에, 학생들이 사전에 교재를 읽고 수업에 출석하는 것이 매우 중요하다. 학기 중 총 4차례의 퀴즈가 주어지며 문제는 퀴즈당 7~10문제로 출제된다.
presentation			
discussion		10%	WYTs (What is Your Thought? session)의 Flipped Learning 방법을 통한 Discussion 및 응답
homework		10%	수업시간에 배운 과학적 이론과 지식을 업무현장에서의 실제 사례에 적용해보기 위한 연습이다. 각 팀은 공동으로 사례별 보고서를 작성하도록 한다. 조별 과제는 3명이 한 조를 구성함을 원칙으로 한다. 각 조에서는 공동으로 2개의 실제 사례를 선택하여 수업시간에 배운 ?
etc		10%	Class Participation
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Understanding and Managing Organizational Behavior	George, M. J. & Jones, G. R.	Pearson Education Co	
Etc	가장 최신 버전의 교재로 교체 될 수 있으며, 학기 시작시에 학생께 공지가 될것임.			

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Class Orientation & Ch. 1: Intro. To Organizational Behavior	E	김도영			
2	Intro. To Organizational Behavior (Continue)	E	김도영			
3	Intro. To Organizational Behavior (Continue) & Personality and Ability, Methods in the Study of Personality	E	김도영			
4	What is Personality? and The Trait Perspective & Individual Differences	E	김도영			
5	Work Values, Attitudes, and Moods and Emotions	E	김도영			
6	Perception and Attribution, and the Management of Diversity	E	김도영			
7	Learning and Creativity	E	김도영			
8	Midterm Week	E	김도영			
9	The Nature of Work Motivation and Managing Stress & Work-Life Balance	E	김도영			
10	Managing Stress & Work-Life Balance (Continues) and The Nature of Work Groups and Teams	E	김도영			
11	The Nature of Work Groups and Teams (Continue)	E	김도영			
12	Leaders & Leadership and Decision Making and Organizational Learning	E	김도영			
13	Decision Making and Organizational Learning (Continues)	E	김도영			
14	Power, Politics, Conflict and Negotiation and Organizational Culture and Behavior and Organizational Design and Structure	E	김도영			
15	Organizational Culture and Ethical Behavior & Organizational Change and Development	E	김도영			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
16	Final Exam	E	김도영			

11. Other items of notification

Organizational Behavior

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I014
	Target students Division/major/grade	경영학부/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(다310) 목B(다310)(다310)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		정대용 (교수/경영대학 경영학과)		
	Office Room Number	다산관 424	Office phone Number	2840	e-mail
	Office hours	1pm-2:30pm, Tue.	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number	509 Dasan Hall	Office phone Number	010-7383-4537	e-mail	ich45337@hanmail.net

1. Introduction

Industrial relations (IR) is the interdisciplinary field of study that concentrates on workers and their unions (and associations), employers and their organizations, government, and the environment in which these "actors" interact. This course explores the components and dynamics of IR systems and how the IR actors use rule-making processes to establish terms and conditions of employment in their environmental settings. A secondary emphasis is on international comparisons to enhance understanding of the unique qualities of the Korean IR system and an appreciation for international variations. The course utilizes an interdisciplinary approach, drawing on theories and concepts from economics, psychology, sociology, labor law, and other behavioral sciences.

2. Course Objectives

3. Class types and activities

1. We hold live online classes in Zoom due to the COVID-19 situation (A couple offline classes could be held if necessary). You must have a camera & a microphone in your computer and turn them on during class to show your face/upper body (no mask/no hat) and participate in discussions effectively. Two offline exams will be given.

2. I do not use a spoon-feeding teaching style. Learning in my class is based on collective action (discussion-bases class), and all activities in class will be conducted in English only, You are required to complete the readings prior to each class, contribute to the discussion of the material, and ask questions when you do not understand. You will learn from your classmates and help them learn. As an instructor, I am here to facilitate your mutual teaching and learning, not to give you "the answers." Active participation in discussions is expected, and your participation will be evaluated. As such, you should have an appropriate level of English skills and willingness to participate in class activities.

WARNING: If you are uncomfortable or unwilling to participate and contribute to a joint-learning environment, you should consider taking another course (or taking this course with another instructor).

4. Teaching Method

- [V] lecture
- [V] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [V] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [V] TBL(Team Based Learning)
- [V] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

1. College-level English skills.
2. Willingness to participate in class activities.

NOTE: all activites in class will be conducted in English only.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1	35%	Short essay questions.
final exam	1	35%	Short essay questions.
quiz		10%	Pop-quizzes (unannounced) will be given several times througout the semester.
presentation			
discussion			
homework			
etc		20%	Participation in class activities
study hours	3-7 hours depending on your abilties		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Course pack (Various Articles)	Authors	Publishers	0000
Main	An Introduction to U.S. Collective Bargaining and Labor Relations	Harry C. Katz, Thomas A. Kochan, and Alexander J. S. Colvin	Cornell University Press	2017

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to the field of IR	E	정대용			
2	Classical Theories: Adam Smith & Karl Marx	E	정대용			
3	Institutionalist View & System Approach	E	정대용			
4	Korean IR I	E	정대용			
5	Korean IR II	E	정대용			
6	Environment, the State & Labor Laws	E	정대용			
7	Union Strategies & Structures	E	정대용			
8	Mid-term Exam (Offline)	E	정대용			
9	Management Strategies & Structures	E	정대용			
10	Union Organizing & Bargaining Structures I	E	정대용			
11	Union Organizing & Bargaining Structures II	E	정대용			
12	Negotiation Process & Strikes	E	정대용			
13	Participatory Processes	E	정대용			
14	International & Comparative IR: Germany	E	정대용			
15	International & Comparative IR: Japan	E	정대용			
16	Exam Review & Final Exam (Offline)	E	정대용			

11. Other items of notification

1. My course does not fit those students whose main goal is to get a "good grade." It better fits those who enjoy the process of learning.

2. This course is offerd for upper-level undergraduate (third & fourth year) students, and its content is complex. You should take another course if you are looking for an "easy course."

3. If you already took this course with me before, you are not allowed to retake this course with me. It would be more beneficial for you to retake this course with another prof.

Organizational Behavior

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I018
	Target students Division/major/grade	경영학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(다B108) 목A(다B108)(다B108)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	이인			
	Office Room Number	510-1	Office phone Number	3631	e-mail
	Office hours	이메일로 약속잡고 오세요.	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course is designed to increase your skills and knowledge on how to manage people effectively in organizations. To do so, you need to understand how people feel, behave, and interact in organizations. The topics covered in this course include: individual differences (personality), values and attitudes, motivation, perception and decision-making, groups and teams, leadership, power, politics, and conflict, organizational culture, and so forth. The lecture will be delivered in English.

2. Course Objectives

3. Class types and activities

Lectures
Team exercises (team discussion)
Quizzes

4. Teaching Method

☑ lecture		☑ discussion and debate
☐ team project(presentation and case studies)		☐ experiments(role-playing,etc)
☐ designing and production		☐ on-site learning(on-site training)
☐ others		

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

N/A

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	지각 및 결석 시 감점
midterm exam		35	대면시험, closed book, 객관식/단답형 주관식
final exam		35	대면시험, closed book, 객관식/단답형 주관식
quiz	5	15	객관식
presentation			
discussion	5	10	팀 토론
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	조직행동론 (Understanding and Managing Organizational Behavior)	George & Jones	Pearson Education	제6판
Sub	조직행동론 (Organizational Behavior)	Judge & Robbins	Pearson Education	제16판

10. Class system and Class shedule

N/A

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	1 과목소개, Ch 1. Introduction to OB	E	이인			
2	Ch 2 Individual Differences: Personalityand Ability	E	이인			
3	Ch 3 Values, Attitudes, Moods, andEmotions	E	이인			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Ch 4 Perception, Attribution, andDiversity Ch 15. Individual DecisionMaking	E	이인			
5	Ch 6 The Nature of Work Motivation	E	이인			
6	Ch 7 Creating a Motivating Work Setting	E	이인			
7	Ch 9 Managing Stress and Work-Life Balance / 중간고사 리뷰	E	이인			
8	Midterm exam (중간고사)	E	이인			
9	Ch 10, 11 Work Groups and Teams	E	이인			
10	Ch 12 Leadership	E	이인			
11	Ch 13 Power, Politics, Conflict, and Negotiation	E	이인			
12	Ch 15 Group Decision Making & Communication	E	이인			
13	Ch 16 Organization Design & Structure	E	이인			
14	Ch 17 Organization Culture and Ethical Behavior	E	이인			
15	Ch 18 Organizational Change and Development / 기말고사 리뷰	E	이인			
16	Final exam (기말고사)	E	이인			

11. Other items of notification

All of the policies and schedules are subject to change if the instructor deems necessary.
The final version of syllabus will be distributed in class.

Organizational Behavior

Course Name	Course type (credit/hours)	전필(3/3)	Course code	I123
	Target students Division/major/grade	경영학부/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(다310) 목B(다310)(다310)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	정대용 (교수/경영대학 경영학과)			
	Office Room Number	다산관 424	Office phone Number	2840	e-mail
	Office hours	1pm-2:30pm, Tue.	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number	509 Dasan Hall	Office phone Number	010-7383-4537	e-mail	ich45337@hanmail.net

1. Introduction

Industrial relations (IR) is the interdisciplinary field of study that concentrates on workers and their unions (and associations), employers and their organizations, government, and the environment in which these "actors" interact. This course explores the components and dynamics of IR systems and how the IR actors use rule-making processes to establish terms and conditions of employment in their environmental settings. A secondary emphasis is on international comparisons to enhance understanding of the unique qualities of the Korean IR system and an appreciation for international variations. The course utilizes an interdisciplinary approach, drawing on theories and concepts from economics, psychology, sociology, labor law, and other behavioral sciences.

2. Course Objectives

3. Class types and activities

1. We hold live online classes in Zoom due to the COVID-19 situation (A couple offline classes could be held if necessary). You must have a camera & a microphone in your computer and turn them on during class to show your face/upper body (no mask/no hat) and participate in discussions effectively. Two offline exams will be given.

2. I do not use a spoon-feeding teaching style. Learning in my class is based on collective action (discussion-bases class), and all activities in class will be conducted in English only, You are required to complete the readings prior to each class, contribute to the discussion of the material, and ask questions when you do not understand. You will learn from your classmates and help them learn. As an instructor, I am here to facilitate your mutual teaching and learning, not to give you "the answers." Active participation in discussions is expected, and your participation will be evaluated. As such, you should have an appropriate level of English skills and willingness to participate in class activities.

WARNING: If you are uncomfortable or unwilling to participate and contribute to a joint-learning environment, you should consider taking another course (or taking this course with another instructor).

4. Teaching Method

[V] lecture		[V] discussion and debate
[V] team project(presentation and case studies)		[ ] experiments(role-playing,etc)
[ ] designing and production		[ ] on-site learning(on-site training)
[ ] others		

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

1. College-level English skills.
2. Willingness to participate in class activities.

NOTE: all activites in class will be conducted in English only.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam	1	35%	Short essay questions.
final exam	1	35%	Short essay questions.
quiz		10%	Pop-quizzes (unannounced) will be given several times througout the semester.
presentation			
discussion			
homework			
etc		20%	Participation in class activities
study hours	3-7 hours depending on your abilties		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Course pack (Various Articles)	Authors	Publishers	0000
Main	An Introduction to U.S. Collective Bargaining and Labor Relations	Harry C. Katz, Thomas A. Kochan, and Alexander J. S. Colvin	Cornell University Press	2017

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to the field of IR	E	정대용			
2	Classical Theories: Adam Smith & Karl Marx	E	정대용			
3	Institutionalist View & System Approach	E	정대용			
4	Korean IR I	E	정대용			
5	Korean IR II	E	정대용			
6	Environment, the State & Labor Laws	E	정대용			
7	Union Strategies & Structures	E	정대용			
8	Mid-term Exam (Offline)	E	정대용			
9	Management Strategies & Structures	E	정대용			
10	Union Organizing & Bargaining Structures I	E	정대용			
11	Union Organizing & Bargaining Structures II	E	정대용			
12	Negotiation Process & Strikes	E	정대용			
13	Participatory Processes	E	정대용			
14	International & Comparative IR: Germany	E	정대용			
15	International & Comparative IR: Japan	E	정대용			
16	Exam Review & Final Exam (Offline)	E	정대용			

11. Other items of notification

1. My course does not fit those students whose main goal is to get a "good grade." It better fits those who enjoy the process of learning.

2. This course is offerd for upper-level undergraduate (third & fourth year) students, and its content is complex. You should take another course if you are looking for an "easy course."

3. If you already took this course with me before, you are not allowed to retake this course with me. It would be more beneficial for you to retake this course with another prof.

Organizational Theory(Capstone Design)

Course Name	Course type (credit/hours)	전선(3/3)	Course code	I020
	Target students Division/major/grade	경영학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화D(다311) 목C(다311)(다311)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	조직행위론		
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)		이인		
	Office Room Number	510-1	Office phone Number	3631	e-mail
	Office hours	이메일로 약속잡고 오세요.	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course is designed to increase your knowledge and skills in analyzing, managing, and understanding organizations and organizational processes. The course will provide you with theoretical frameworks to analyze organizations and their relationship with external environments. The course will cover a variety of topics, such as organizational structures and processes, inter-organizational relationships, relationship between organizations and external environments, organizational culture and ethics, and power and conflict.

2. Course Objectives

3. Class types and activities

Lectures
Individual assignment
Team project
Participation

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

N/A

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		0	There will be point deductions for late arrival (-0.2) and absence (-0.5)
midterm exam		25	In class, closed book, multiple choice and short answer (객관식/단답형 주관식)
final exam		25	
quiz			
presentation		30	1) FInal report (e.g., in-depth analysis of an organization) 2) Team presentation
discussion	5-6	10	Team discussion
homework		10	Individual assignment (개인과제)
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	조직이론과 설계 / Daft, R. L. (2013). Organization Theory & Design (12th ed.). CENGAGE Learning.	Richard L. Daft	CENGAGE	13판
Main	Course materials (e.g., PPT slides; reading materials) will be distributed every class via Ajou BB			
Sub	Scott, W. R., & Davis, G. (2007) Organizations and Organizing: Rational, Natrual, and Open System Perspectives.	Scott & Davis	Taylor & Francis Ltd	

10. Class system and Class shedule

N/A

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction to the Course / Ch 1 Organizations and Organization Theory	E	이인			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Ch 1 Organizations and Organization Theory	E	이인			
3	Ch 2 Strategy, Organization Design, and Effectiveness	E	이인			
4	Ch 3 Fundamentals of Organizational Structure	E	이인			
5	Ch 4 The External Environment	E	이인			
6	Ch 5 Interorganizational Relationships	E	이인			
7	Ch 6 Designing Organizations for the International Environment	E	이인			
8	Midterm exam	E	이인			
9	Ch 7 Manufacturing and Service Technologies	E	이인			
10	Ch 8 Information Technology and Control	E	이인			
11	Ch 9 Organization Size, Life Cycle, and Decline	E	이인			
12	Ch 10 Organizational Culture and Ethical Values	E	이인			
13	Ch 11 Innovation and Change Ch 12 Decision-Making Processes	E	이인			
14	Team presentation #1	E	이인			
15	Team presentation #2	E	이인			
16	Final exam	E	이인			

11. Other items of notification

All the policies, schedules, and other details are subject to change if the instructor deems necessary.
Detailed instruction on team project will be proivded in class.
The final version of the syllabus will be distributed in class.

Physical Chemistry2

Course Name	Course type (credit/hours)	전필(3/3)	Course code	G054
	Target students Division/major/grade	화학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월E(성133) 수E(성133)(성133)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	화학1 화학2
	Related basic courses	수학 1,2 물리 1,2
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	유영동 (부교수/자연과학대학 화학과)			
	Office Room Number	원천관215-2	Office phone Number	2692	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course focuses on understanding and learning important physicochemical principles and concepts in natural science. In particular, it focuses on understanding the electronic structure of atoms and molecules based on quantum mechanics, understanding spectroscopy, understanding statistical mechanics, and further understanding dynamic phenomena occurring on solid surfaces.

2. Course Objectives

물리화학은 화학의 원리를 이해하는 중요한 학문으로 다음과 같은 개념들을 익히는데 중점을 둔다.
1. 원자 분자의 양자역학적 기술과 분광학
2. 원자 분자의 전자 구조의 이해

3. Class types and activities

Students will learn important basic concepts of physical chemistry related to quantum chemistry, statistical thermodynamics, and spectroscopy.

4. Teaching Method

☑ lecture	☐ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

학부 1학년 수준의 화학, 물리, 수학에 대한 기초지식

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	
midterm exam	1	40%	
final exam	1	40%	
quiz			
presentation			
discussion			
homework		10%	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Physical Chemistry, 3rd edition	Engel, Reid	Pearson	2012
Sub	Atkin's Physical Chemistry, 10th edition	P. W. Atkins	Oxford University Press	2015

10. Class system and Class shedule

.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Chapter 12 From Classical to Quantum Mechanics		유영동			
2	Chapter 13 The Schr?dinger Equation		유영동			
3	Chapter 14 The Quantum Mechanical Postulates		유영동			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Chapter 15 Using Quantum Mechanics on Simple Systems		유영동			
5	Chapter 16 The Particle in the Box and the Real World		유영동			
6	Chapter 17 Commuting and Noncommuting Operators and the Surprising Consequences of Entanglement		유영동			
7	Discussion		유영동			
8	Mid-term exam		유영동			
9	Chapter 18 A Quantum Mechanical Model for the Vibration and Rotation of Molecules		유영동			
10	Chapter 19 The Vibrational and Rotational Spectroscopy of Diatomic Molecules		유영동			
11	Chapter 20 The Hydrogen Atom		유영동			
12	Chapter 23 The Chemical Bond in Diatomic Molecules		유영동			
13	Chapter 24 Molecular Structure and Energy Levels for Polyatomic Molecules		유영동			
14	Chapter 27 Molecular Symmetry		유영동			
15	Discussion		유영동			
16	Final exam		유영동			

11. Other items of notification

Physical Thoughts for AI

Course Name	Course type (credit/hours)	교필(3/3)	Course code	G002
	Target students Division/major/grade	물리학과/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화C(원540) 금C(원540)(원540)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	없음
	Related basic courses	없음
	Recommanded concurrent courses	없음
	Related advanced courses	없음

Instructor	Name (title/division)		윤종희 (조교수/자연과학대학 물리학과)			
	Office Room Number	원천관 411호	Office phone Number	2580	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

2. Course Objectives

○ 담당교수와의 상호작용을 통해 학과에 대한 이해와 소속감을 높인다.
○ 물리학에 적용되는 인공지능을 배움으로써 물리학과에서 배울 수 있는 첨단 기술에 대해 이해한다.
○ 대학 및 학과의 교육, 활동, 진로, 지원 등에 대해 이해하고, 필요한 경우 추가적인 정보를 찾을 수 있다.
○ 대학 생활에 필요한 발표자료 제작 능력, 발표 능력, 보고서 작성 능력을 키울 수 있다.

3. Class types and activities

4. Teaching Method

- ☑ lecture
- ☑ team project(presentation and case studies)
- ☐ designing and production
- ☐ others

- ☑ discussion and debate
- ☑ experiments(role-playing,etc)
- ☐ on-site learning(on-site training)

5. Support Systems in Use

- ☑ e-class
- ☐ cyber lecture
- ☐ class behavior analyazing system

- ☐ automatic recording system
- ☐ blended learning(combination of online and offline teaching)
- ☐ others

- ☐ web-based assignment

6. Teaching Tools

- ☑ PBL(Problem Based Learning)
- ☐ TBL(Team Based Learning)

- ☐ CBL(Case Based Learning)
- ☐ others

7. Knowledge and ability required for taking this course

아주대학교 물리학과 학부생

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		30%	수업태도 포함
midterm exam			
final exam			
quiz			
presentation		40%	
discussion			
homework		30%	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	강의 자료			

10. Class system and Class shedule

학생 주도적인 학습 운용을 목표로 프로젝트, 시뮬레이션, 보고서 작성 및 발표 등을 중심으로 운용한다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	오리엔테이션	K	윤종희			
2	물리학과 인공지능	K	윤종희			
3	엑셀 – 시뮬레이션 1	K	윤종희			
4	엑셀 – 시뮬레이션 2	K	윤종희			
5	파워포인트 활용	K	윤종희			
6	파이썬 활용1	K	윤종희			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
7	파이썬 활용2	K	윤종희			
8	중간고사	K	윤종희			
9	인공지능 개론1	K	윤종희			
10	인공지능 개론2	K	윤종희			
11	연구소개1	K	윤종희			
12	연구소개2	K	윤종희			
13	발표 – 물리학과 인공지능1	K	윤종희			
14	발표 – 물리학과 인공지능2	K	윤종희			
15	발표 – 물리학과 인공지능3	K	윤종희			
16	기말고사	K	윤종희			

11. Other items of notification

Principle of Economics1

Course Name	Course type (credit/hours)	전필(3/3)	Course code	K024
	Target students Division/major/grade	Economics/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화C(율356) 금C(율356)(율356)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	No prerequisites are required for this course.		
	Related basic courses	No prerequisites are required for this course.		
	Recommanded concurrent courses			
	Related advanced courses	Microeconomics, Econometrics, Applied Econometrics		

Instructor	Name (title/division)		Seonho Shin		
	Office Room Number	TBA	Office phone Number		e-mail
	Office hours	By appointment via email	Homepage address		TBA
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

■ This course aims to provide a comprehensive coverage of the main concepts, theories, and models of microeconomics that should be studied at the basic, undergraduate level.
■ This course is designed primarily for first- or second-year economics students; however, it is also open to students from other majors.
■ Evaluation Methods: ① Attendance ② Quizzes and ③ Midterm and final exams, which may be a combination of written and oral exams (The evaluation method may be adjusted depending on the number of students enrolled in this course.)
■ Textbooks: You are encouraged to read the texts listed in this syllabus. However, you may choose to use any of the available textbooks for Principles of Economics (Introduction to Microeconomics) that best suit your needs and preferences.

2. Course Objectives

3. Class types and activities

■ The instructor expects students enrolled in this course to develop the following skills.
① Accurately understanding the fundamental concepts, theories, and models of microeconomics
② Applying the key concepts, theories, and models of microeconomics in a flexible manner to real-world economic problems and business cases
③ Understanding and analyzing various figures, graphs, tables, etc.
④ Examining and criticizing diverse social and economic issues highlighted by the media
⑤ Refining career plans as an economics major

4. Teaching Method

V	lecture	V	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

V	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

V	PBL(Problem Based Learning)	V	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

■ No prerequisites are required for this course.
■ Students are not permitted to enroll in both this course and Microeconomics (taught by the same instructor, ECON211) in the same semester.
■ Exceptions may be made under special circumstances; in such cases, students are required to consult with the instructor and obtain permission in advance.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	14	10	[Attendance]
midterm exam	1	35	[Midterm examination] May be a combination of written and oral exams.
final exam	1	35	[Final examination] May be a combination of written and oral exams.
quiz	10	20	[Quiz] 2 Points × 10 Times (Quizzes and pop-up tests for assessing whether students have reviewed the course material.)
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Principles of Economics	N. Gregory Mankiw	Any version of the book suffices.	
Ref.	The Economist [https://www.economist.com/]		https://www.economist.com/	

10. Class system and Class shedule

■ This course will adhere to the lecture plan presented in this syllabus. However, it should be noted that the scope and order of topics may be adjusted based on the pace at which students are learning.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction & Overview	E	신선호			
2	Supply and Demand Theory	E	신선호			
3	Elasticity of Demand and Supply	E	신선호			
4	Consumer Theory: Marginal Utility	E	신선호			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Consumer Theory: Indifference Curves	E	신선호			
6	Consumer Theory: Present Preferences and Expected Utility	E	신선호			
7	Midterm Examination Preparation and Wrap-up	E	신선호			
8	MIDTERM EXAMINATION	E	신선호		[Midterm examination] May be a combination of written and oral exams.	
9	Producer Theory: Production	E	신선호			
10	Producer Theory: Costs	E	신선호			
11	Market Structures: Perfect Competition	E	신선호			
12	Market Structures: Monopoly	E	신선호			
13	Market Structures: Monopolistic Competition and Oligopoly	E	신선호			
14	Income Distribution	E	신선호			
15	Final Examination Preparation and Wrap-up	E	신선호			
16	FINAL EXAMINATION	E	신선호		[Final examination] May be a combination of written and oral exams.	

11. Other items of notification

■ Purpose of the oral examination:
① To enhance the instructor's understanding of the students' comprehension of the lecture content and incorporate it into future lectures
② To assess the students' intrinsic and fundamental understanding of the core concepts
③ To strengthen the students' communication skills relevant to their majors
* Final evaluation methods will be determined upon completion of the course registration.

■ Form of the oral examination:
Students will solve problems assigned by the instructor and orally explain their reasoning process. Students are encouraged to flexibly utilize formulas, equations, diagrams, examples, and real-world cases during their explanations. The instructor may ask follow-up questions based on each student's explanations, and his/her answers will be evaluated as a whole. To ensure fairness, the order of the oral exams will be determined through a randomized draw.

■ [Notice for students with disabilities]
- The instructor of this course strongly encourages students with disabilities to enroll. Students with disabilities are encouraged to communicate any questions or class-related issues with the instructor.
- To ensure that students with disabilities are provided with accurate information regarding assignments and test assessments, keynotes and relevant information will be posted on Ajou Bb.
- For students who are blind or visually impaired, as well as students with cognitive disabilities, the midterm and final assessments should have extended time (1.5x or 1.7x).

Principles of Accounting

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>전필(3/3)</td><td>Course code</td><td>I117</td></tr>
<tr><td>Target students Division/major/grade</td><td>경영학과/1학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>월D(다B108) 목D(다B108)(다B108)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3">n/a</td></tr>
<tr><td>Related basic courses</td><td colspan="3"></td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3"></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">이성실 (조교수/경영대학 경영학과)</td></tr>
<tr><td>Office Room Number</td><td>다산관 407-1호</td><td>Office phone Number</td><td>3662</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td></td><td>Homepage address</td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

Basic understanding of concepts and methods of financial accounting. Emphasis on knowledge necessary for completion of accounting cycle, income measurement, and financial statement preparation. Topics include accounting assets, liabilities, and owners equity as well as related ethical issues.

2. Course Objectives

1. To familiarize the use of financial accounting and financial statements in the decision-making process.
2. To provide you with a working knowledge of basic financial accounting techniques and critical thinking skills.
3. To provide you with the tools necessary to apply the financial accounting concepts and procedures to problems and situations encountered in the real-world.
4. To enhance your understandings of ethics in business and accounting.

3. Class types and activities

4. Teaching Method

☑ lecture   ☐ discussion and debate

☐ team project(presentation and case studies)   ☐ experiments(role-playing,etc)

☐ designing and production   ☐ on-site learning(on-site training)

☐ others

5. Support Systems in Use

☑ e-class   ☐ automatic recording system   ☐ web-based assignment

☐ cyber lecture   ☐ blended learning(combination of online and offline teaching)

☐ class behavior analyazing system   ☐ others

6. Teaching Tools

☑ PBL(Problem Based Learning)   ☑ CBL(Case Based Learning)

☐ TBL(Team Based Learning)   ☐ others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			Bonus points will be provided to students with good attendance.
midterm exam		40%	
final exam		40%	
quiz		20%	
presentation			
discussion			
homework			
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Ref.	Accounting Principles IFRS Version	Weygandt, Kimmel, Kieso	Wiley	2019

10. Class system and Class shedule

1. Accounting transparency and business ethics
2. Accrual basis of accounting & accounting principles
3. Introduction to financial statements
4. Accounting process cycle for financial statements preparations
5. Accounts receivable & payable
6. Inventories
7. Tangible and intangible assets
8. Financial assets
9. Non-current liabilities including bonds payable
10. Stockholders' equity

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Accounting in action	E	이성실			
2	The recording process	E	이성실			
3	Adjusting the accounts	E	이성실			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Completing the accounting cycle	E	이성실			
5	Accounting for merchandising operation	E	이성실			
6	Inventories	E	이성실			
7	Inventories	E	이성실			
8	Mid-term exam	E	이성실			
9	Fraud, internal control, and cash	E	이성실			
10	Accounting for receivables	E	이성실			
11	Accounting for receivables	E	이성실			
12	Plant assets, natural resources, and intangible assets	E	이성실			
13	Plant assets, natural resources, and intangible assets	E	이성실			
14	Corporations: organization and capital stock transactions	E	이성실			
15	Long-term liabilities	E	이성실			
16	Final Exam	E	이성실			

11. Other items of notification

Probability and Statistics 1

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>교필(3/3)</td><td>Course code</td><td>M001</td></tr>
<tr><td>Target students Division/major/grade</td><td>미디어학과/1학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>화D(산B103) 목C(산B103)(산B103)</td><td>English Grade</td><td>A(100%English)</td></tr>
</table>

<table>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td></td></tr>
<tr><td>Related basic courses</td><td></td></tr>
<tr><td>Recommanded concurrent courses</td><td></td></tr>
<tr><td>Related advanced courses</td><td></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">Teemu H. Laine (부교수/소프트웨어융합대학 디지털미디어학과)</td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td>1851</td><td>e-mail</td></tr>
<tr><td>Office hours</td><td>Thursday 9am-11am</td><td>Homepage address</td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
</table>

1. Introduction

The world we live in is full of uncertainties. Probability is a branch of mathematics that deals with uncertainties. Our world is also full of data. Statistics is all about collecting, organizing, analyzing, interpreting, and presenting data. In this course we will study the basics of probability and statistics, which will prepare you for more advanced courses. The elementary knowledge of probability and statistics will be very useful in everyday life and especially if you will work with research and development.

2. Course Objectives

Students will gain basic understanding of probability theory and will learn the basic tools of statistics. They will then apply the learned concepts to solve real problems.

The expected learning outcomes are as follows:

1. Learn that events and their occurrences can be defined in mathematical terms.
2. Understand random variables and various uses for them.
3. Understand how random variables can be used to model random phenomena
4. Learn about different distributions (e.g. normal, geometric, binomial, Poisson)
5. Learn effective ways to do sampling in statistics
6. Learn how to make predictions in statistics and understand the meaning of confidence in these predictions

3. Class types and activities

The course uses lectures and exercises as the main teaching methods. During lectures, the professor will introduce theoretical concepts, followed by practical examples.

Lectures will be face-to-face and each lecture will be recorded for later reference. There will be opportunities for discussion and Q&A when students can ask the professor about lectures and exercises.

Mid-term and final exams are also used to test the students understanding of the course topics.

4. Teaching Method

- [V] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [V] others (KakaoTalk chatroom for quick help and support)
- [ ] discussion and debate
- [V] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [V] others (KakaoTalk chatroom)
- [ ] web-based assignment

6. Teaching Tools

- [V] PBL(Problem Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

Students must have basic English communication skills because the course is delivered 100% in English. There may be a Korean TA but it is not guaranteed.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	Attendance
midterm exam		32.5	Mid-term exam
final exam		32.5	Final exam
quiz			
presentation			
discussion			
homework		30	Weekly assignments / homework
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Head First Statistics (Korean: 실생활 예제로 배우는 정말 쉬운 통계 이야기)	Griffiths	Oreilly Media	2008

10. Class system and Class shedule

During the course, students will learn the basic concepts and theories of probability, such as events, observations, random variables, density, expected value, variance, geometric distribution, binomial distribution, Poisson distribution, and normal distribution. Based on this, the main areas of statistics, such as point estimation, interval estimation, confidence intervals, hypothesis testing, and Chi-squared test will also be covered.

The lectures will follow the chapters of the textbook. Each week we cover one of the chapters, with additional examples and discussion during Q&A sessions. Moreover, each week the students will be given an assignment with multiple tasks. These assignments will relate to previously covered lectures. This way the students will not only gain the theoretical but also practical learning objectives.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction and visualizing information	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Measuring central tendency	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
3	Measuring variability and spread	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
4	Calculating probabilities	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
5	Using discrete probability distributions	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
6	Permutations and combinations	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
7	Geometric, binomial and Poisson distributions	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
8	Mid-term exam	E	Teemu H. Laine	Exam		
9	Using the normal distribution 1	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
10	Using the normal distribution 2	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
11	Using statistical sampling	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
12	Estimating populations and samples	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
13	Constructing confidence intervals	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
14	Using Hypothesis tests	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
15	Chi-squared distribution	E	Teemu H. Laine	Lectures, demonstrations, discussion, practice		
16	Final exam	E	Teemu H. Laine	Exam		

11. Other items of notification

Project Planning and Entrepreneurship(Capstone Design)

Course Name	Course type (credit/hours)	전선(3/3)	Course code	K069
	Target students Division/major/grade	사회학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월8.5(율252) 월9.5(율252) 월10.5(율252)(율252)	English Grade	A(100%English)
Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)					
	Office Room Number		Office phone Number	2781	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course provides students with the basis to the planning by dealing primarily with formal and methodological characteristics and now-hows and tools necessary in business and project planning in diverse fields. Students will be required to think, plan, and apply such characteristics and tools to various programs, projects, and businesses to eventually execute a term project with clear and precise methodological rigor. In doing so, students are expected to acquire and master the creative thinking skills, attitudes to enhance collaboration, knowledge of successive stages of planning, tools to optimize limited amounts of available organizational resources with the constraints of environment, and ways to synchronize strategies and tactical executions.

After the completion of the course, students will be able to perform successfully in planning processes of small or large programs, projects, and business ventures in diverse fields. Although the methods and tools that will be acquired in this semester can be successfully applied to many different kinds of business or project planning, the emphasis of this course will be not just on the for-profit operations, but also on the applicability to the fields of creative industries, social entrepreneurial endeavors, and service designs.

2. Course Objectives

3. Class types and activities

lecture and discussion
collaborative group project

4. Teaching Method

[V] lecture   [ ] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[V] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20	attendance and class participation
midterm exam			
final exam			
quiz			
presentation			
discussion			
homework		50	term project (group and individual evaluation)
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Collection of articles and materials			
Main	Building a Successful Business Plan. 2007			
Ref.	Seven Steps to a Successful Business Plan. Al Coke. 2002.			
Ref.	Manual for Developing Social Enterprises. 2015.			

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	General Introduction to the Course	E	김병관			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Five Dimensions of Biz Planning, Five Elements of a Successful Business	E	김병관			
3	Entrepreneurship (and Intrapreneurship)	E	김병관			
4	Social Enterprise and Social Entrepreneurship	E	김병관			
5	Business Model Generation: Aligning diverse components of business	E	김병관			
6	Structure of a Business Plan; Mission and Vision	E	김병관			
7	Product/Service: Ideation and Development; Problem Solving: Methods and Tools ; Creativity and Innovation in Planning	E	김병관			
8	Market and Market Analysis; Competition Analysis	E	김병관			
9	Market Strategy ; Pricing	E	김병관			
10	Organizational Aspects of P, HR	E	김병관			
11	Financial Elements of BP	E	김병관			
12	Project Evaluation Methods	E	김병관			
13	Progress Report and Consultation	E	김병관			
14	Progress Report and Consultation	E	김병관			
15	Progress Report and Consultation	E	김병관			
16	Project Final Report	E	김병관			

11. Other items of notification

<h1 align="center">Science and Religion</h1>

Course Name	Course type (credit/hours)	교필(3/3)		Course code	X460
	Target students Division/major/grade	미확정/미확정		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(율258) 수A(율258)(율258)		English Grade	A(100%English)
Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)		이재신 (명예교수/자연과학대학 화학과)			
	Office Room Number	원천관 216	Office phone Number	2603	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

Science and religion share a common area of interest in that science is a quest for understanding the general principles behind natural phenomena, while religion is concerned with the position and purpose of mankind in the nature. For the people who are simultaneously receiving the benefits and hazardousness of the modern day scientific technology, it is important to establish a sound perspective on religion based on correct understanding of the values and limitations of science. In this course we investigate the respective approach and perspective of the science and religion on the issues of origins of cosmos and life and the relationship between the western science and Christianity through history. The major contents covered in the lecture will be the relation between science and religion, historical investigation of the western science and Christianity, and modern scientific development about the origin of the cosmos and life. This course is related to advancing the capability of analytical and critical thinking as well as interdisciplinary studies in our university.

2. Course Objectives

The goal of this course is, first, to understand the relationship between science and religion through historical investigation on the relation between science and religion in the western society. The second goal of this course is to investigate the problem of origin of the universe and life, which is a common fundamental issue of science and religion, using modern scientific concepts and theories.

3. Class types and activities

Lecture(classroom + zoom + video lecture). Video watching. Team project presentation.

4. Teaching Method

- [ ] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [ ] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [ ] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [ ] PBL(Problem Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20	
midterm exam	1	20	
final exam	1	30	
quiz			
presentation			
discussion			
homework	2	30	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Science and religion, a historical introduction, 1st ed.	G. B. Ferngren	Johns Hopkins Univer	2002
Main	Signature in the cell	S. C. Meyer	HarperOne	2009
Ref.	A brief history of time	S. Hawking	Bantam	1998
Ref.	Darwin's doubt	S. C. Meyer	HarperOne	2013

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Definition of science and religion	E	이재신			
2	Relation between science and religion in ancient Greek	E	이재신			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Relation between science and religion in Middle Ages	E	이재신			
4	Relation between science and religion during scientifix revolution	E	이재신			
5	Newtonian mechanics and cosmology	E	이재신	On site class		
6	Special relativity	E	이재신	On site class		
7	General relativity and Big Bang theory	E	이재신			
8	Cosmology and religion	E	이재신	On site class		
9	Geology and paleontology in 18 and 19 C	E	이재신			
10	Natural history during 18 and 19 C	E	이재신			
11	Charles Darwin and evolution	E	이재신			
12	Chemical evolution model	E	이재신			
13	Inference in historical science	E	이재신			
14	Intelligent design argument	E	이재신			
15	Science, materialism, and Naturalism	E	이재신	On site class		
16	Final exam.	E	이재신	Offline exam.		

11. Other items of notification

Solid-State Physics

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td colspan="2">전필(3/3)</td><td>Course code</td><td>G040</td></tr>
<tr><td>Target students Division/major/grade</td><td colspan="2">물리학과/3학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td colspan="2">화E(성337) 금E(성337)(성337)</td><td>English Grade</td><td>A(100%English)</td></tr>
</table>

Reference to this course	Prerequisite courses	
	Related basic courses	Quantum Mechanics
	Recommanded concurrent courses	
	Related advanced courses	

<table>
<tr><td rowspan="3">Instructor</td><td colspan="2">Name (title/division)</td><td colspan="4">이형우 (조교수/대학원 에너지시스템학과)</td></tr>
<tr><td>Office Room Number</td><td>원천관 416호</td><td>Office phone Number</td><td>2581</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td></td><td>Homepage address</td><td colspan="3">https://sites.google.com/view/copl/</td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td colspan="2">Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

The physical understanding of various kinds of solids has been developed rapidly since the foundation of quantum mechanics in the early 20th century. Today, solid stae physics is a discipline of physics with the largest number of researchers and is being applied extensively to industries and engineering. The main topic includes the atomic structure of crystals, phonons, free electron gas and the Fermi surface in this course. This course will cover electrical and magnetic properties of metals, semiconductors, dielectrics, and nano-materials.

2. Course Objectives

Students need to understand the basic concepts and theories of solid state physics and acquire an ability to apply them to real physical phenomena observed in nature and in laboratories.

Specifically, students need to understand
1. the atomic structure of crystals
2. the principle of crystal binding
3. elementary excitations in solids including phonons
4. thermodynamics and dynamics of free electrons and the Fermi surface
5. elementary concepts of energy band in semiconductor crystals
6. Nanostructures

3. Class types and activities

The lectures will be provided off-line. The two exams (the mid and the final) will be off-line. If there is any change, it will be notified in advance.

4. Teaching Method

[V] lecture

[ ] discussion and debate

[ ] team project(presentation and case studies)

[ ] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[ ] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

Basic knowledge on classical mechanics, electromagnetism and quantum mechanics is essential.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	매일	10	
midterm exam	1	40	
final exam	1	45	
quiz			
presentation			
discussion			
homework	매주	5	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Introduction to Solid State Physics, 8th Ed.	Charles Kittel	Wiley	2005

10. Class system and Class shedule

The following topics will be covered.
1. Crystal structure
2. Crystal diffraction
3. Crystal binding
4. Phonons
5. Free electron Fermi gas
6. Energy bands
7. Semiconductors
8. Fermi surfaces and Metals

These are essential topics in solid state physics which every student in physics needs to learn.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Crystal Structure 1	E	이형우	온라인 영상강의 및 실시간 화상 강의 혼합		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Crystal Structure 2	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
3	Wave diffraction and the reciprocal lattice 1	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
4	Wave diffraction and the reciprocal lattice 2	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
5	Crystal binding 1	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
6	Crystal binding 2	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
7	Phonons:Crystal vibrations	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
8	Midterm Exam	E	이형우		대면 방식의 지필 고사	
9	Phonons:Thermal properties	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
10	Free electron Fermi gas 1	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
11	Free electron Fermi gas 2	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
12	Energy Band 1	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
13	Energy Band 2	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
14	Semiconductor	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
15	Fermi Surfaces and Metals	E	이형우	온라인 영상강의 및 실시간 화상강의 혼합		
16	Final Exam	E	이형우		대면 방식의 지필 고사	

11. Other items of notification

Spanish Language

Course Name	Course type (credit/hours)	교선(3/3)	Course code	X099
	Target students Division/major/grade	/	Openning semester	2023 2ND SEMESTER
	Class time and classroom	수F(성135) 금F(성135)(성135)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		오윤미 (부교수/인문대학 불어불문학과)		
	Office Room Number	다산관405-2	Office phone Number	3308	e-mail
	Office hours	Wed E		Homepage address	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course is intended for students who have never learned Spanish and wish to learn it for the first time. The objective of the course is to help them develop basic knowledge and understanding of Spanish language. It will be entirely conducted in English and all students are required to use English (and Spanish) during the class.

This course has to do with "foreign language proficiency" according to competency-based education in our university.

2. Course Objectives

This introductory class is designed for students who have not previously studied Spanish language and aims to provide them with opportunities to learn basic knowledge of Spanish language (i.e. pronunciation, vocabulary, expressions) and its culture.

3. Class types and activities

During each class, students will study the pronunciation, grammar, vocabulary, expressions of Spanish language by means of lectures, pairworks and role-playings. Students are expected to be interactive in the classroom. Audio-visual materials will be used to help students to improve their knowledge of Spanish culture and language.

4. Teaching Method

- [V] lecture
- [ ] discussion and debate
- [ ] team project(presentation and case studies)
- [V] experiments(role-playing,etc)
- [ ] designing and production
- [ ] on-site learning(on-site training)
- [ ] others

5. Support Systems in Use

- [V] e-class
- [ ] automatic recording system
- [ ] web-based assignment
- [V] cyber lecture
- [ ] blended learning(combination of online and offline teaching)
- [ ] class behavior analyazing system
- [ ] others

6. Teaching Tools

- [ ] PBL(Problem Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

An interest in Spanish language and culture

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	
midterm exam		30%	
final exam		35%	
quiz			
presentation		15%	Presentation in Spanish (e.g. singing a song, reciting a poem, performing a scene of theatre or movie or role-playing)
discussion			
homework			
etc		10%	Participation and performance during the class
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	초급 스페인어 1	신자영, 이만기, 김은경, 라이몬 블랑카포르트	서울대학교출판문화원	2013

10. Class system and Class shedule

In this course, students will acquire basic knowledge of Spanish (from its pronunciation to its grammar) in English.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction, Lecci?n inicial. Alfabeto y pronunciaci?n	E	오윤미			
2	Lecci?n 1. Saludos y presentaciones	E	오윤미			
3	Lecci?n 2. En el aula	E	오윤미			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Lecci?n 2. En el aula - Lecci?n 3. ¿De d?nde eres?	E	오윤미			
5	Lecci?n 3. ¿De d?nde eres?	E	오윤미			
6	Lecci?n 4. En mi casa y en mi barrio	E	오윤미			
7	Lecci?n 4. En mi casa y en mi barrio	E	오윤미			
8	Midterm exam	E	오윤미			
9	Lecci?n 5. La vida universitaria	E	오윤미			
10	Lecci?n 5. La vida universitaria - Lecci?n 6. Esta es mi familia	E	오윤미			
11	Lecci?n 6. Esta es mi familia	E	오윤미			
12	Lecci?n 7. ¡Feliz cumplea?os!	E	오윤미			
13	Presentation	E	오윤미			
14	Lecci?n 7. ¡Feliz cumplea?os! - Lecci?n 8. ¿Qu? tiempo hace hoy?	E	오윤미			
15	Lecci?n 8. ¿Qu? tiempo hace hoy?	E	오윤미			
16	Final exam	E	오윤미			

11. Other items of notification

The course schedule may be subject to change depending on class progress.

Speaking and Writing in English

<table>
<tr><td rowspan="3">Course
Name</td><td>Course type
(credit/hours)</td><td>교필(3/3)</td><td>Course code</td><td>X103</td></tr>
<tr><td>Target students
Division/major/grade</td><td>/1학년</td><td>Openning
semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time
and classroom</td><td>수B(다507) 금B(다507)(다507)</td><td>English
Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference
to this
course</td><td>Prerequisite courses</td><td colspan="3">N/A</td></tr>
<tr><td>Related basic courses</td><td colspan="3">N/A</td></tr>
<tr><td>Recommanded
concurrent courses</td><td colspan="3">N/A</td></tr>
<tr><td>Related
advanced courses</td><td colspan="3">N/A</td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="5">Katie Mae Klemsen (조교수/대학 다산학부대학)</td></tr>
<tr><td>Office Room
Number</td><td>다산관 215-1</td><td>Office phone
Number</td><td>3243</td><td>e-mail</td><td></td></tr>
<tr><td>Office
hours</td><td colspan="2">by appointment</td><td>Homepage
address</td><td colspan="2"></td></tr>
<tr><td rowspan="2">Teaching
Assistant</td><td>Name (title/division)</td><td colspan="5"></td></tr>
<tr><td>Office Room
Number</td><td></td><td>Office phone
Number</td><td></td><td>e-mail</td><td>oftheno@ajou.ac.kr</td></tr>
</table>

1. Introduction

English 1 for international students is designed for beginning students whose native language is not English. This course aims to develop the speaking, listening, and reading skills of learners. Students are expected to learn and familiarize themselves with basic grammatical concepts and practice applying them so as to gain a good command of the written and spoken English language. In this course, participants should expect to develop the followings:

-their understanding of English vocabulary and structures (i.e., grammar)
-their reading skills through various thematic contents
-their listening skills to elaborate details for further understanding
-their presentation skills

2. Course Objectives

3. Class types and activities

Students are encouraged to actively participate in class. After the lecture given by the professor, the students (in pairs) will practice what they have learned with their partners. They will also get an opportunity to present to the class what they have practiced. There will also be quizzes as well as a mid-term and final exam.

4. Teaching Method

[V]	lecture	[V]	discussion and debate
[V]	team project(presentation and case studies)	[ ]	experiments(role-playing,etc)
[ ]	designing and production	[ ]	on-site learning(on-site training)
[ ]	others		

5. Support Systems in Use

[V]	e-class	[ ]	automatic recording system	[ ]	web-based assignment
[ ]	cyber lecture	[ ]	blended learning(combination of online and offline teaching)		
[ ]	class behavior analyazing system	[ ]	others		

6. Teaching Tools

[ ]	PBL(Problem Based Learning)	[ ]	CBL(Case Based Learning)
[V]	TBL(Team Based Learning)	[ ]	others

7. Knowledge and ability required for taking this course

Basic English grammar Reading and listening abilities for college level
문서작성을 위한 워드프로세싱 능력 (과제)
아주Bb 사용능력

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam	1	25	
final exam	1	25	
quiz	2	20	
presentation			
discussion			
homework	4	15	
etc		5	
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Grammar and Beyond 1A (2nd ed.)	Randi Reppen	Cambridge UP	2021

10. Class system and Class shedule

Students are encouraged to actively participate in class. After the lecture given by the professor, the students will (in pairs) practice what they have learned with their partners. They will also get an opportunity to present to the class what they have practiced. There will also be quizzes as well as a mid-term and final exam.Students are expected to complete and submit 4 assignments given during the semester.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction		Katie Mae Klemsen			
2	Statements with Present of Be		Katie Mae Klemsen			
3	Yes/No Questions and Information Questions with Be		Katie Mae Klemsen			
4	Count Nouns; A/An; Have and Be		Katie Mae Klemsen			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Demonstratives and Possessives		Katie Mae Klemsen			
6	Descriptive Adjectives; Prepositions		Katie Mae Klemsen			
7	There is and There are; Simple Present		Katie Mae Klemsen			
8	Midterm Exam		Katie Mae Klemsen			
9	Simple Present Yes/ No Questions and Short Answers		Katie Mae Klemsen			
10	Simple Present Information Questions		Katie Mae Klemsen			
11	Conjunctions; And, But, Or; Because		Katie Mae Klemsen			
12	Simple Past Statements		Katie Mae Klemsen			
13	Simple Past Questions		Katie Mae Klemsen			
14	Simple Past of be		Katie Mae Klemsen			
15	Past Time Clauses with When, Before, and After		Katie Mae Klemsen			
16	Final exam		Katie Mae Klemsen			

11. Other items of notification

.

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X104
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(성334) 목A(성334)(성334)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Nicholas McGhie (조교수/대학 다산학부대학)			
	Office Room Number	성호관 419호	Office phone Number	031-219-3256	e-mail
	Office hours	24-7 Online FB Messenger	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations.

4. Teaching Method

☑	lecture	☐	discussion and debate
☑	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☑	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 3 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

We will do the Writing Booklet first, then the textbook along with the Grammar Booklet for extra review.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews	E	Nicholas McGhie	Online & Video		
2	Unit 1 - Food from the Earth	E	Nicholas McGhie	Online & Video		
3	Unit 2 - Express Yourself	E	Nicholas McGhie	Online & Video		
4	Unit 3 - Cities	E	Nicholas McGhie	Online & Video		
5	Unit 4 - The Body	E	Nicholas McGhie	Online & Video		
6	Unit 5 - Challenges	E	Nicholas McGhie	Online & Video		
7	Unit 6 - Transitions	E	Nicholas McGhie	Online & Video		
8	MID-TERM EXAM	E	Nicholas McGhie	Online & Video		
9	Unit 7 - Luxuries	E	Nicholas McGhie	Online & Video		
10	Unit 8 - Nature	E	Nicholas McGhie	Online & Video		
11	Unit 9 - Life in the Past	E	Nicholas McGhie	Online & Video		
12	Unit 10 - Travel	E	Nicholas McGhie	Online & Video		
13	Unit 11 - Careers	E	Nicholas McGhie	Online & Video		
14	Unit 12 - Celebrations	E	Nicholas McGhie	Online & Video		
15	Review	E	Nicholas McGhie	Online & Video		
16	FINAL EXAM	E	Nicholas McGhie	Online & Video		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X105
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(성201) 목A(성201)(성201)	English Grade	A(100%English)

Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	Philip Chivers (조교수/대학 다산학부대학)			
	Office Room Number	성호관 419	Office phone Number	031-219-2831	e-mail
	Office hours	Tues B 12.00-13.15, Weds B 10.30-11.45, Thurs C 10.30-11.45	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail	philip@ajou.ac.kr

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies) [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[V] others (This class will involve lots of group work to improve fluency through conversation practice.

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

* We often use Google docs. Make sure that you are prepared to access Google apps.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			Students will participate in several online quizzes which will contribute to their participation score
presentation		30%	Students will perform a presentation during the course as well as a final oral test which will evaluate the student's speaking skills
discussion		10%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction	E	Philip Chivers			
2	Academic Writing	E	Philip Chivers			
3	Academic Writing	E	Philip Chivers			
4	Academic Writing / Unit 1 - Food for Life	E	Philip Chivers			
5	Unit 1 - Food for Life / Unit 2 - Express Yourself	E	Philip Chivers			
6	Unit 3 - Cities	E	Philip Chivers			
7	Unit 4 - The Body / Unit 5 - Challenges	E	Philip Chivers			
8	MID-TERM EXAM	E	Philip Chivers			
9	Unit 8 - Conservation	E	Philip Chivers			
10	Unit 9 - Life Now and in the Past	E	Philip Chivers			
11	Formal Presentations	E	Philip Chivers			
12	Unit 10 - Travel	E	Philip Chivers			
13	Unit 11 - Careers	E	Philip Chivers			
14	Unit 12 - Celebrations	E	Philip Chivers			
15	Speaking Test	E	Philip Chivers			
16	FINAL EXAM	E	Philip Chivers			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X106
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(성332) 목A(성332)(성332)	English Grade	A(100%English)
Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	Joshua Houser (조교수/대학 다산학부대학)			
	Office Room Number	성호관 421호	Office phone Number	2844	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course provides students with an opportunity to improve the rreading and listening skills in English. Students will be also able to increase the awareness of other cultures including the North American culture by reading articles about a wide variety ofcurrentissues.

2. Course Objectives

3. Class types and activities

(1) Students are required to hand in a variety of homework assignments such a summary of the textbook material or a short report on related topics.

(2) Students are expected to choose a chapter and make a grouppresentation on a related topic.

(3) Regular quizzes (four quizzes) will be given in class to ensure that students are learning the course material.

(4) Students are responsible for attending class regularly. Students must obtain specific information about the material covered in class on the day they were absent and hand in all the homework assignments. Furthermore, unexcused absences will have the following consequences on the students' final score:

1 unexcused absence = 0 point reduction
2 unexcused absence = 2 point reduction
3 unexcused absence = 3 point reduction
4 unexcused absence = 4 point reduction

cf. 2 times late = 1 unexcused absence
    arriving more than 20 minutes late = 1 unexcused absence

(5) Absences are excused only in the case of a medical excuse verified by a doctor's note (prescriptions are not allowed), a military excuse, or a death in the family.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies) [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[V] others ( )

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		20	
final exam		20	
quiz		30	
presentation		10	
discussion		10	
homework		10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	World English 2 Third Edition	Martin Milner	Cengage Learning	2014

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	course intro	K	Joshua Houser			
2	Chapter 1 (Reading 1)	K	Joshua Houser			
3	Chapter 1 (Reading 3)	K	Joshua Houser			
4	Chapter 2 (Reading 1)	K	Joshua Houser			
5	Chapter 2 (Reading 2)	K	Joshua Houser			
6	Chapter 3 (Reading 1/2)	K	Joshua Houser			
7	Chapter 4 (Reading 2)	K	Joshua Houser			
8	mid-term exam	K	Joshua Houser			
9	Chapter 5 (Reading 1)	K	Joshua Houser			
10	Chapter 5 (Reading 2)	K	Joshua Houser			
11	Chapter 6 (Reading 1)	K	Joshua Houser			
12	Chapter 6 (Reading 2)	K	Joshua Houser			
13	Chapter 7 (Reading 1)	K	Joshua Houser			
14	Chapter 7 (Reading 2)	K	Joshua Houser			
15	Chapter 9 (Reading 2)	K	Joshua Houser			
16	final exam	K	Joshua Houser			

11. Other items of notification

Speaking and Writing in English

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>교필(3/3)</td><td>Course code</td><td>X107</td></tr>
<tr><td>Target students Division/major/grade</td><td>Freshmen/1학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>월B(성436) 목B(성436)(성436)</td><td>English Grade</td><td>A(100%English)</td></tr>
</table>

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="5">Kevin Hawthorne (조교수/대학 다산학부대학)</td></tr>
<tr><td>Office Room Number</td><td>성호관420호</td><td>Office phone Number</td><td>2830</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td colspan="2">화3:00-4:30, 수3:00-4:30</td><td>Homepage address</td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="5"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

4. Teaching Method

☑ lecture	☑ discussion and debate
☐ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☑ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2020	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction	E	Kevin Hawthorne	face-to-face		
2	Unit 1 - Food from the Earth	E	Kevin Hawthorne	face-to-face		
3	Unit 2 - Express Yourself	E	Kevin Hawthorne	face-to-face		
4	Unit 3 - Cities	E	Kevin Hawthorne	face-to-face		
5	Unit 4 - The Body	E	Kevin Hawthorne	face-to-face		
6	Unit 5 - Challenges	E	Kevin Hawthorne	face-to-face		
7	Unit 6 - Transitions	E	Kevin Hawthorne	face-to-face		
8	MID-TERM EXAM	E	Kevin Hawthorne	face-to-face		
9	Unit 7 - Luxuries	E	Kevin Hawthorne	face-to-face		
10	Unit 8 - Nature	E	Kevin Hawthorne	face-to-face		
11	Unit 9 - Life in the Past	E	Kevin Hawthorne	face-to-face		
12	Unit 10 - Travel	E	Kevin Hawthorne	face-to-face		
13	Unit 11 - Careers	E	Kevin Hawthorne	face-to-face		
14	Unit 12 - Celebrations	E	Kevin Hawthorne	face-to-face		
15	Review	E	Kevin Hawthorne	face-to-face		
16	FINAL EXAM	E	Kevin Hawthorne	face-to-face		

11. Other items of notification

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X108
	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(다506) 목B(다506)(다506)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Donald Hearn (조교수/대학 다산학부대학)			
	Office Room Number	다산관 215-2호	Office phone Number	2817	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture

[V] discussion and debate

[ ] team project(presentation and case studies)

[ ] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[V] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
discussion		20%	Participation: Students are expected to speak English during class time and to complete all in-class tasks as well as homework assignments.
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organization of the paragraph, adequate development of the subject and proper formatting.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Donald Hearn	대면		
2	Formal English	E	Donald Hearn	대면		
3	Unit 1 – Food from the Earth	E	Donald Hearn	대면		
4	Formal English, sentence-level correction & editing	E	Donald Hearn	대면		
5	Unit 2 – Express Yourself	E	Donald Hearn	대면		
6	Paragraph formatting, structure	E	Donald Hearn	대면		
7	Unit 2 – Express Yourself	E	Donald Hearn	대면		
8	MID-TERM EXAM	E	Donald Hearn	대면		
9	Unit 3 – Cities	E	Donald Hearn	대면		
10	Paragraph structure – Supporting sentences	E	Donald Hearn	대면		
11	Unit 3 – Cities	E	Donald Hearn	대면		
12	Unit 4 – The Body	E	Donald Hearn	대면		
13	Unit 4 – The Body	E	Donald Hearn	대면		
14	Unit 5 – Challenges	E	Donald Hearn	대면		
15	Review	E	Donald Hearn	대면		
16	FINAL EXAM	E	Donald Hearn	대면		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X109
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(성104) 목B(성104)(성104)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Scott Scattergood (조교수/대학 다산학부대학)			
	Office Room Number	성호관420호	Office phone Number	1824	e-mail
	Office hours	Mon, Wed, Thur: 1:30 - 2:00; Friday: 6-7 PM	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly.

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities.

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics.

(4)Follow the steps in the writing process.

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence.

(6)Write using complete sentences, avoiding fragments and run-on sentences.

(7)Write using capital letters, periods and commas correctly.

(8)Write with acceptable academic style and proper paragraph format.

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

☑ lecture		☑ discussion and debate
☐ team project(presentation and case studies)		☐ experiments(role-playing,etc)
☐ designing and production		☐ on-site learning(on-site training)
☐ others		

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook or the material in the Lectures Notes section of Blackboard.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 absences = 2 points off; 3 absences = 4 points off; 4 absences = 6 points off...
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews / pronunciation	E	Scott Scattergood			
2	Conversations	E	Scott Scattergood			
3	Writing Part 1	E	Scott Scattergood			
4	Writing Part 2	E	Scott Scattergood			
5	Unit 1 – Food for Life	E	Scott Scattergood			
6	Unit 2 Express Yourself	E	Scott Scattergood			
7	Unit 3 Cities	E	Scott Scattergood			
8	MID-TERM EXAM	E	Scott Scattergood			
9	Speaking Test preparation	E	Scott Scattergood			
10	Midterm Speaking Test	E	Scott Scattergood			
11	Unit 4 The Body	E	Scott Scattergood			
12	Advice	E	Scott Scattergood			
13	Unit 8 – Conservation	E	Scott Scattergood			
14	Conditional Sentences	E	Scott Scattergood			
15	Review and Final Speaking Test	E	Scott Scattergood			
16	FINAL EXAM	E	Scott Scattergood			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X110
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(성233) 목B(성233)(성233)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Joseph Ball (조교수/대학 다산학부대학)				
	Office Room Number	성호관417호	Office phone Number	2846	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations.

4. Teaching Method

☑	lecture	☐	discussion and debate
☑	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☑	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 3 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

We will do the Writing Booklet first, then the textbook along with the Grammar Booklet for extra review.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews	E	Joseph Ball	Online & Video		
2	Unit 1 - Food from the Earth	E	Joseph Ball	Online & Video		
3	Unit 2 - Express Yourself	E	Joseph Ball	Online & Video		
4	Unit 3 - Cities	E	Joseph Ball	Online & Video		
5	Unit 4 - The Body	E	Joseph Ball	Online & Video		
6	Unit 5 - Challenges	E	Joseph Ball	Online & Video		
7	Unit 6 - Transitions	E	Joseph Ball	Online & Video		
8	MID-TERM EXAM	E	Joseph Ball	Online & Video		
9	Unit 7 - Luxuries	E	Joseph Ball	Online & Video		
10	Unit 8 - Nature	E	Joseph Ball	Online & Video		
11	Unit 9 - Life in the Past	E	Joseph Ball	Online & Video		
12	Unit 10 - Travel	E	Joseph Ball	Online & Video		
13	Unit 11 - Careers	E	Joseph Ball	Online & Video		
14	Unit 12 - Celebrations	E	Joseph Ball	Online & Video		
15	Review	E	Joseph Ball	Online & Video		
16	FINAL EXAM	E	Joseph Ball	Online & Video		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X111
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(성201-1) 목B(성201-1)(성201-1)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		Nicholas McGhie (조교수/대학 다산학부대학)		
	Office Room Number	성호관 419호	Office phone Number	031-219-3256	e-mail
	Office hours	24-7 Online FB Messenger	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations.

4. Teaching Method

☑	lecture	☐	discussion and debate
☑	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☑	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 3 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

We will do the Writing Booklet first, then the textbook along with the Grammar Booklet for extra review.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews	E	Nicholas McGhie	Online & Video		
2	Unit 1 - Food from the Earth	E	Nicholas McGhie	Online & Video		
3	Unit 2 - Express Yourself	E	Nicholas McGhie	Online & Video		
4	Unit 3 - Cities	E	Nicholas McGhie	Online & Video		
5	Unit 4 - The Body	E	Nicholas McGhie	Online & Video		
6	Unit 5 - Challenges	E	Nicholas McGhie	Online & Video		
7	Unit 6 - Transitions	E	Nicholas McGhie	Online & Video		
8	MID-TERM EXAM	E	Nicholas McGhie	Online & Video		
9	Unit 7 - Luxuries	E	Nicholas McGhie	Online & Video		
10	Unit 8 - Nature	E	Nicholas McGhie	Online & Video		
11	Unit 9 - Life in the Past	E	Nicholas McGhie	Online & Video		
12	Unit 10 - Travel	E	Nicholas McGhie	Online & Video		
13	Unit 11 - Careers	E	Nicholas McGhie	Online & Video		
14	Unit 12 - Celebrations	E	Nicholas McGhie	Online & Video		
15	Review	E	Nicholas McGhie	Online & Video		
16	FINAL EXAM	E	Nicholas McGhie	Online & Video		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X112
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(성133) 목B(성133)(성133)	English Grade	A(100%English)

Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)		Philip Chivers (조교수/대학 다산학부대학)		
	Office Room Number	성호관 419	Office phone Number	031-219-2831	e-mail
	Office hours	Tues B 12.00-13.15, Weds B 10.30-11.45, Thurs C 10.30-11.45	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

(Teaching Assistant) e-mail: philip@ajou.ac.kr

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)

☑ others (This class will involve lots of group work to improve fluency through conversation practice.

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

* We often use Google docs. Make sure that you are prepared to access Google apps.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			Students will participate in several online quizzes which will contribute to their participation score
presentation		30%	Students will perform a presentation during the course as well as a final oral test which will evaluate the student's speaking skills
discussion		10%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction	E	Philip Chivers			
2	Academic Writing	E	Philip Chivers			
3	Academic Writing	E	Philip Chivers			
4	Academic Writing / Unit 1 - Food for Life	E	Philip Chivers			
5	Unit 1 - Food for Life / Unit 2 - Express Yourself	E	Philip Chivers			
6	Unit 3 - Cities	E	Philip Chivers			
7	Unit 4 - The Body / Unit 5 - Challenges	E	Philip Chivers			
8	MID-TERM EXAM	E	Philip Chivers			
9	Unit 8 - Conservation	E	Philip Chivers			
10	Unit 9 - Life Now and in the Past	E	Philip Chivers			
11	Formal Presentations	E	Philip Chivers			
12	Unit 10 - Travel	E	Philip Chivers			
13	Unit 11 - Careers	E	Philip Chivers			
14	Unit 12 - Celebrations	E	Philip Chivers			
15	Speaking Test	E	Philip Chivers			
16	FINAL EXAM	E	Philip Chivers			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X113
	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(다109) 목B(다109)(다109)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Katie Mae Klemsen (조교수/대학 다산학부대학)				
	Office Room Number	다산관 215-1	Office phone Number	3243	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

- [V] lecture
- [V] discussion and debate
- [ ] team project(presentation and case studies)
- [ ] experiments(role-playing,etc)
- [ ] designing and production
- [ ] on-site learning(on-site training)
- [ ] others

5. Support Systems in Use

- [V] e-class
- [ ] automatic recording system
- [ ] web-based assignment
- [V] cyber lecture
- [ ] blended learning(combination of online and offline teaching)
- [ ] class behavior analyazing system
- [ ] others

6. Teaching Tools

- [ ] PBL(Problem Based Learning)
- [ ] CBL(Case Based Learning)
- [ ] TBL(Team Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
discussion		20%	Participation: Students are expected to speak English during class time and to complete all in-class tasks as well as homework assignments.
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organization of the paragraph, adequate development of the subject and proper formatting.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
2	Formal English	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
3	Unit 1 – Food from the Earth	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
4	Formal English, sentence-level correction & editing	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
5	Unit 2 – Express Yourself	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
6	Paragraph formatting, structure	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
7	Unit 2 – Express Yourself	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
8	MID-TERM EXAM	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
9	Unit 3 – Cities	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
10	Paragraph structure – Supporting sentences	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
11	Unit 3 – Cities	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
12	Unit 4 – The Body	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
13	Unit 4 – The Body	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
14	Unit 5 - Challenges	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)실시간화상 (live online class)		
15	Review	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
16	FINAL EXAM	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X114
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월F(성334) 목F(성334)(성334)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	N/A
	Related basic courses	N/A
	Recommanded concurrent courses	N/A
	Related advanced courses	N/A

Instructor	Name (title/division)		Nicholas McGhie (조교수/대학 다산학부대학)			
	Office Room Number	성호관 419호	Office phone Number	031-219-3256	e-mail	
	Office hours	by appointment	Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	oftheno@ajou.ac.kr

1. Introduction

English 1 for International Students is designed for beginning students whose native language is not English. This course aims to develop the speaking, listening, and reading skills of learners. Students are expected to learn and familiarize themselves with basic grammatical concepts and practice applying them so as to gain a good command of the written and spoken English language. In this course, participants should expect to develop the
following:

-their understanding of English vocabulary and structures (i.e., grammar)
-their reading skills through various thematic contents
-their listening skills to elaborate details for further understanding
-their presentation skills

2. Course Objectives

3. Class types and activities

Students are encouraged to actively participate in class. After the lecture given by the professor, the students (in pairs) will practice what they have learned with their partners. They will also get an opportunity to present to the class what they have practiced. There will also be quizzes as well as a mid-term and final exam.

4. Teaching Method

- [V] lecture
- [V] team project(presentation and case studies)
- [ ] designing and production
- [ ] others

- [V] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [V] e-class
- [ ] cyber lecture
- [ ] class behavior analyazing system

- [ ] automatic recording system
- [ ] blended learning(combination of online and offline teaching)
- [ ] others

- [ ] web-based assignment

6. Teaching Tools

- [ ] PBL(Problem Based Learning)
- [V] TBL(Team Based Learning)

- [ ] CBL(Case Based Learning)
- [ ] others

7. Knowledge and ability required for taking this course

Basic English grammar Reading and listening abilities for college level
문서작성을 위한 워드프로세싱 능력 (과제)
아주Bb 사용능력

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam	1	25	
final exam	1	25	
quiz	2	20	
presentation			
discussion			
homework	4	15	
etc		5	
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Grammar and Beyond 1A (2nd ed.)	Randi Reppen	Cambridge UP	2021

10. Class system and Class shedule

Students are encouraged to actively participate in class. After the lecture given by the professor, the students will (in pairs) practice what they have learned with their partners. They will also get an opportunity to present to the class what they have practiced. There will also be quizzes as well as a mid-term and final exam.Students are expected to complete and submit 4 assignments given during the semester.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction		Nicholas McGhie			
2	Statements with Present of Be		Nicholas McGhie			
3	Yes/No Questions and Information Questions with Be		Nicholas McGhie			
4	Count Nouns; A/An; Have and Be		Nicholas McGhie			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
5	Demonstratives and Possessives		Nicholas McGhie			
6	Descriptive Adjectives; Prepositions		Nicholas McGhie			
7	There is and There are; Simple Present		Nicholas McGhie			
8	Midterm Exam		Nicholas McGhie			
9	Simple Present Yes/ No Questions and Short Answers		Nicholas McGhie			
10	Simple Present Information Questions		Nicholas McGhie			
11	Conjunctions; And, But, Or; Because		Nicholas McGhie			
12	Simple Past Statements		Nicholas McGhie			
13	Simple Past Questions		Nicholas McGhie			
14	Simple Past of be		Nicholas McGhie			
15	Past Time Clauses with When, Before, and After		Nicholas McGhie			
16	Final exam		Nicholas McGhie			

11. Other items of notification

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Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X115
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(성436) 수A(성436)(성436)	English Grade	A(100%English)
Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommanded concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)	Kevin Hawthorne (조교수/대학 다산학부대학)			
	Office Room Number	성호관420호	Office phone Number	2830	e-mail
	Office hours	화3:00-4:30, 수3:00-4:30	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☐	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2020	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction	E	Kevin Hawthorne	face-to-face		
2	Unit 1 - Food from the Earth	E	Kevin Hawthorne	face-to-face		
3	Unit 2 - Express Yourself	E	Kevin Hawthorne	face-to-face		
4	Unit 3 - Cities	E	Kevin Hawthorne	face-to-face		
5	Unit 4 - The Body	E	Kevin Hawthorne	face-to-face		
6	Unit 5 - Challenges	E	Kevin Hawthorne	face-to-face		
7	Unit 6 - Transitions	E	Kevin Hawthorne	face-to-face		
8	MID-TERM EXAM	E	Kevin Hawthorne	face-to-face		
9	Unit 7 - Luxuries	E	Kevin Hawthorne	face-to-face		
10	Unit 8 - Nature	E	Kevin Hawthorne	face-to-face		
11	Unit 9 - Life in the Past	E	Kevin Hawthorne	face-to-face		
12	Unit 10 - Travel	E	Kevin Hawthorne	face-to-face		
13	Unit 11 - Careers	E	Kevin Hawthorne	face-to-face		
14	Unit 12 - Celebrations	E	Kevin Hawthorne	face-to-face		
15	Review	E	Kevin Hawthorne	face-to-face		
16	FINAL EXAM	E	Kevin Hawthorne	face-to-face		

11. Other items of notification

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X116
	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(다B109) 수A(다B109)(다B109)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Donald Hearn (조교수/대학 다산학부대학)			
	Office Room Number	다산관 215-2호	Office phone Number	2817	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[V] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
discussion		20%	Participation: Students are expected to speak English during class time and to complete all in-class tasks as well as homework assignments.
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organization of the paragraph, adequate development of the subject and proper formatting.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Donald Hearn	대면		
2	Formal English	E	Donald Hearn	대면		
3	Unit 1 - Food from the Earth	E	Donald Hearn	대면		
4	Formal English, sentence-level correction & editing	E	Donald Hearn	대면		
5	Unit 2 - Express Yourself	E	Donald Hearn	대면		
6	Paragraph formatting, structure	E	Donald Hearn	대면		
7	Unit 2 - Express Yourself	E	Donald Hearn	대면		
8	MID-TERM EXAM	E	Donald Hearn	대면		
9	Unit 3 - Cities	E	Donald Hearn	대면		
10	Paragraph structure - Supporting sentences	E	Donald Hearn	대면		
11	Unit 3 - Cities	E	Donald Hearn	대면		
12	Unit 4 - The Body	E	Donald Hearn	대면		
13	Unit 4 - The Body	E	Donald Hearn	대면		
14	Unit 5 - Challenges	E	Donald Hearn	대면		
15	Review	E	Donald Hearn	대면		
16	FINAL EXAM	E	Donald Hearn	대면		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X117
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(성333) 수A(성333)(성333)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Scott Scattergood (조교수/대학 다산학부대학)			
	Office Room Number	성호관420호	Office phone Number	1824	e-mail
	Office hours	Mon, Wed, Thur: 1:30 - 2:00; Friday: 6-7 PM	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly.

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities.

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics.

(4)Follow the steps in the writing process.

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence.

(6)Write using complete sentences, avoiding fragments and run-on sentences.

(7)Write using capital letters, periods and commas correctly.

(8)Write with acceptable academic style and proper paragraph format.

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook or the material in the Lectures Notes section of Blackboard.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 absences = 2 points off; 3 absences = 4 points off; 4 absences = 6 points off...
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews / pronunciation	E	Scott Scattergood			
2	Conversations	E	Scott Scattergood			
3	Writing Part 1	E	Scott Scattergood			
4	Writing Part 2	E	Scott Scattergood			
5	Unit 1 - Food for Life	E	Scott Scattergood			
6	Unit 2 Express Yourself	E	Scott Scattergood			
7	Unit 3 Cities	E	Scott Scattergood			
8	MID-TERM EXAM	E	Scott Scattergood			
9	Speaking Test preparation	E	Scott Scattergood			
10	Midterm Speaking Test	E	Scott Scattergood			
11	Unit 4 The Body	E	Scott Scattergood			
12	Advice	E	Scott Scattergood			
13	Unit 8 - Conservation	E	Scott Scattergood			
14	Conditional Sentences	E	Scott Scattergood			
15	Review and Final Speaking Test	E	Scott Scattergood			
16	FINAL EXAM	E	Scott Scattergood			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X118
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(성236) 수A(성236)(성236)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Joseph Ball (조교수/대학 다산학부대학)				
	Office Room Number	성호관417호	Office phone Number	2846	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations.

4. Teaching Method

[V] lecture

[ ] discussion and debate

[V] team project(presentation and case studies)

[ ] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[V] automatic recording system

[ ] web-based assignment

[V] cyber lecture

[V] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)

[V] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 3 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

We will do the Writing Booklet first, then the textbook along with the Grammar Booklet for extra review.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews	E	Joseph Ball	Online & Video		
2	Unit 1 - Food from the Earth	E	Joseph Ball	Online & Video		
3	Unit 2 - Express Yourself	E	Joseph Ball	Online & Video		
4	Unit 3 - Cities	E	Joseph Ball	Online & Video		
5	Unit 4 - The Body	E	Joseph Ball	Online & Video		
6	Unit 5 - Challenges	E	Joseph Ball	Online & Video		
7	Unit 6 - Transitions	E	Joseph Ball	Online & Video		
8	MID-TERM EXAM	E	Joseph Ball	Online & Video		
9	Unit 7 - Luxuries	E	Joseph Ball	Online & Video		
10	Unit 8 - Nature	E	Joseph Ball	Online & Video		
11	Unit 9 - Life in the Past	E	Joseph Ball	Online & Video		
12	Unit 10 - Travel	E	Joseph Ball	Online & Video		
13	Unit 11 - Careers	E	Joseph Ball	Online & Video		
14	Unit 12 - Celebrations	E	Joseph Ball	Online & Video		
15	Review	E	Joseph Ball	Online & Video		
16	FINAL EXAM	E	Joseph Ball	Online & Video		

11. Other items of notification

Speaking and Writing in English

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>교필(3/3)</td><td>Course code</td><td>X119</td></tr>
<tr><td>Target students Division/major/grade</td><td>Freshmen/1학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>월A(성201-1) 수A(성201-1)(성201-1)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3"></td></tr>
<tr><td>Related basic courses</td><td colspan="3"></td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3"></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">Nicholas McGhie (조교수/대학 다산학부대학)</td></tr>
<tr><td>Office Room Number</td><td>성호관 419호</td><td>Office phone Number</td><td>031-219-3256</td><td>e-mail</td></tr>
<tr><td>Office hours</td><td>24-7 Online FB Messenger</td><td>Homepage address</td><td colspan="2"></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td></tr>
</table>

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations.

4. Teaching Method

[V] lecture   [ ] discussion and debate

[V] team project(presentation and case studies) [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [V] automatic recording system   [ ] web-based assignment

[V] cyber lecture   [V] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [V] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 3 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

We will do the Writing Booklet first, then the textbook along with the Grammar Booklet for extra review.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews	E	Nicholas McGhie	Online & Video		
2	Unit 1 - Food from the Earth	E	Nicholas McGhie	Online & Video		
3	Unit 2 - Express Yourself	E	Nicholas McGhie	Online & Video		
4	Unit 3 - Cities	E	Nicholas McGhie	Online & Video		
5	Unit 4 - The Body	E	Nicholas McGhie	Online & Video		
6	Unit 5 - Challenges	E	Nicholas McGhie	Online & Video		
7	Unit 6 - Transitions	E	Nicholas McGhie	Online & Video		
8	MID-TERM EXAM	E	Nicholas McGhie	Online & Video		
9	Unit 7 - Luxuries	E	Nicholas McGhie	Online & Video		
10	Unit 8 - Nature	E	Nicholas McGhie	Online & Video		
11	Unit 9 - Life in the Past	E	Nicholas McGhie	Online & Video		
12	Unit 10 - Travel	E	Nicholas McGhie	Online & Video		
13	Unit 11 - Careers	E	Nicholas McGhie	Online & Video		
14	Unit 12 - Celebrations	E	Nicholas McGhie	Online & Video		
15	Review	E	Nicholas McGhie	Online & Video		
16	FINAL EXAM	E	Nicholas McGhie	Online & Video		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X120
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(성233) 수A(성233)(성233)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)			Philip Chivers (조교수/대학 다산학부대학)	
	Office Room Number	성호관 419	Office phone Number	031-219-2831	e-mail
	Office hours	Tues B 12.00-13.15, Weds B 10.30-11.45, Thurs C 10.30-11.45	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail	philip@ajou.ac.kr

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[V] others (This class will involve lots of group work to improve fluency through conversation practice.

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

* We often use Google docs. Make sure that you are prepared to access Google apps.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			Students will participate in several online quizzes which will contribute to their participation score
presentation		30%	Students will perform a presentation during the course as well as a final oral test which will evaluate the student's speaking skills
discussion		10%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction	E	Philip Chivers			
2	Academic Writing	E	Philip Chivers			
3	Academic Writing	E	Philip Chivers			
4	Academic Writing / Unit 1 - Food for Life	E	Philip Chivers			
5	Unit 1 - Food for Life / Unit 2 - Express Yourself	E	Philip Chivers			
6	Unit 3 - Cities	E	Philip Chivers			
7	Unit 4 - The Body / Unit 5 - Challenges	E	Philip Chivers			
8	MID-TERM EXAM	E	Philip Chivers			
9	Unit 8 - Conservation	E	Philip Chivers			
10	Unit 9 - Life Now and in the Past	E	Philip Chivers			
11	Formal Presentations	E	Philip Chivers			
12	Unit 10 - Travel	E	Philip Chivers			
13	Unit 11 - Careers	E	Philip Chivers			
14	Unit 12 - Celebrations	E	Philip Chivers			
15	Speaking Test	E	Philip Chivers			
16	FINAL EXAM	E	Philip Chivers			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X121
	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(다109) 수A(다109)(다109)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Katie Mae Klemsen (조교수/대학 다산학부대학)				
	Office Room Number	다산관 215-1	Office phone Number	3243	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☑	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
discussion		20%	Participation: Students are expected to speak English during class time and to complete all in-class tasks as well as homework assignments.
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organization of the paragraph, adequate development of the subject and proper formatting.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
2	Formal English	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
3	Unit 1 – Food from the Earth	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
4	Formal English, sentence-level correction & editing	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
5	Unit 2 – Express Yourself	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
6	Paragraph formatting, structure	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
7	Unit 2 – Express Yourself	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
8	MID-TERM EXAM	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
9	Unit 3 – Cities	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
10	Paragraph structure – Supporting sentences	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
11	Unit 3 – Cities	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
12	Unit 4 – The Body	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
13	Unit 4 – The Body	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
14	Unit 5 – Challenges	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)실시간화상 (live online class)		
15	Review	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
16	FINAL EXAM	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X122
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월A(성105) 수A(성105)(성105)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)		Joshua Houser (조교수/대학 다산학부대학)		
	Office Room Number	성호관 421호	Office phone Number	2844	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course provides students with an opportunity to improve the rreading and listening skills in English. Students will be also able to increase the awareness of other cultures including the North American culture by reading articles about a wide variety ofcurrentissues.

2. Course Objectives

3. Class types and activities

(1) Students are required to hand in a variety of homework assignments such a summary of the textbook material or a short report on related topics.
(2) Students are expected to choose a chapter and make a grouppresentation on a related topic.
(3) Regular quizzes (four quizzes) will be given in class to ensure that students are learning the course material.
(4) Students are responsible for attending class regularly. Students must obtain specific information about the material covered in class on the day they were absent and hand in all the homework assignments. Furthermore, unexcused absences will have the following consequences on the students' final score:
1 unexcused absence = 0 point reduction
2 unexcused absence = 2 point reduction
3 unexcused absence = 3 point reduction
4 unexcused absence = 4 point reduction

cf. 2 times late = 1 unexcused absence
    arriving more than 20 minutes late = 1 unexcused absence

(5) Absences are excused only in the case of a medical excuse verified by a doctor's note (prescriptions are not allowed), a military excuse, or a death in the family.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies) [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[V] others ( )

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		20	
final exam		20	
quiz		30	
presentation		10	
discussion		10	
homework		10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	World English 2 Third Edition	Martin Milner	Cengage Learning	2014

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	course intro	K	Joshua Houser			
2	Chapter 1 (Reading 1)	K	Joshua Houser			
3	Chapter 1 (Reading 3)	K	Joshua Houser			
4	Chapter 2 (Reading 1)	K	Joshua Houser			
5	Chapter 2 (Reading 2)	K	Joshua Houser			
6	Chapter 3 (Reading 1/2)	K	Joshua Houser			
7	Chapter 4 (Reading 2)	K	Joshua Houser			
8	mid-term exam	K	Joshua Houser			
9	Chapter 5 (Reading 1)	K	Joshua Houser			
10	Chapter 5 (Reading 2)	K	Joshua Houser			
11	Chapter 6 (Reading 1)	K	Joshua Houser			
12	Chapter 6 (Reading 2)	K	Joshua Houser			
13	Chapter 7 (Reading 1)	K	Joshua Houser			
14	Chapter 7 (Reading 2)	K	Joshua Houser			
15	Chapter 9 (Reading 2)	K	Joshua Houser			
16	final exam	K	Joshua Houser			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X123
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(성104) 수C(성104)(성104)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Kevin Hawthorne (조교수/대학 다산학부대학)			
	Office Room Number	성호관420호	Office phone Number	2830	e-mail
	Office hours	화3:00-4:30, 수3:00-4:30	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [V] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2020	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction	E	Kevin Hawthorne	face-to-face		
2	Unit 1 - Food from the Earth	E	Kevin Hawthorne	face-to-face		
3	Unit 2 - Express Yourself	E	Kevin Hawthorne	face-to-face		
4	Unit 3 - Cities	E	Kevin Hawthorne	face-to-face		
5	Unit 4 - The Body	E	Kevin Hawthorne	face-to-face		
6	Unit 5 - Challenges	E	Kevin Hawthorne	face-to-face		
7	Unit 6 - Transitions	E	Kevin Hawthorne	face-to-face		
8	MID-TERM EXAM	E	Kevin Hawthorne	face-to-face		
9	Unit 7 - Luxuries	E	Kevin Hawthorne	face-to-face		
10	Unit 8 - Nature	E	Kevin Hawthorne	face-to-face		
11	Unit 9 - Life in the Past	E	Kevin Hawthorne	face-to-face		
12	Unit 10 - Travel	E	Kevin Hawthorne	face-to-face		
13	Unit 11 - Careers	E	Kevin Hawthorne	face-to-face		
14	Unit 12 - Celebrations	E	Kevin Hawthorne	face-to-face		
15	Review	E	Kevin Hawthorne	face-to-face		
16	FINAL EXAM	E	Kevin Hawthorne	face-to-face		

11. Other items of notification

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

Speaking and Writing in English

	Course type (credit/hours)	교필(3/3)	Course code	X124
Course Name	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(다B109) 수C(다B109)(다B109)	English Grade	A(100%English)

	Prerequisite courses	
Reference to this course	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

	Name (title/division)	Donald Hearn (조교수/대학 다산학부대학)			
Instructor	Office Room Number	다산관 215-2호	Office phone Number	2817	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[V] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
discussion		20%	Participation: Students are expected to speak English during class time and to complete all in-class tasks as well as homework assignments.
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organization of the paragraph, adequate development of the subject and proper formatting.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Donald Hearn	대면		
2	Formal English	E	Donald Hearn	대면		
3	Unit 1 – Food from the Earth	E	Donald Hearn	대면		
4	Formal English, sentence-level correction & editing	E	Donald Hearn	대면		
5	Unit 2 – Express Yourself	E	Donald Hearn	대면		
6	Paragraph formatting, structure	E	Donald Hearn	대면		
7	Unit 2 – Express Yourself	E	Donald Hearn	대면		
8	MID-TERM EXAM	E	Donald Hearn	대면		
9	Unit 3 – Cities	E	Donald Hearn	대면		
10	Paragraph structure – Supporting sentences	E	Donald Hearn	대면		
11	Unit 3 – Cities	E	Donald Hearn	대면		
12	Unit 4 – The Body	E	Donald Hearn	대면		
13	Unit 4 – The Body	E	Donald Hearn	대면		
14	Unit 5 – Challenges	E	Donald Hearn	대면		
15	Review	E	Donald Hearn	대면		
16	FINAL EXAM	E	Donald Hearn	대면		

11. Other items of notification

Speaking and Writing in English

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>교필(3/3)</td><td>Course code</td><td>X125</td></tr>
<tr><td>Target students Division/major/grade</td><td>Freshmen/1학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>화D(성332) 목C(성332)(성332)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3"></td></tr>
<tr><td>Related basic courses</td><td colspan="3"></td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3"></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">Scott Scattergood (조교수/대학 다산학부대학)</td></tr>
<tr><td>Office Room Number</td><td>성호관420호</td><td>Office phone Number</td><td>1824</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td>Mon, Wed, Thur: 1:30 - 2:00; Friday: 6-7 PM</td><td>Homepage address</td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly.

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities.

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics.

(4)Follow the steps in the writing process.

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence.

(6)Write using complete sentences, avoiding fragments and run-on sentences.

(7)Write using capital letters, periods and commas correctly.

(8)Write with acceptable academic style and proper paragraph format.

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook or the material in the Lectures Notes section of Blackboard.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 absences = 2 points off; 3 absences = 4 points off; 4 absences = 6 points off...
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews / pronunciation	E	Scott Scattergood			
2	Conversations	E	Scott Scattergood			
3	Writing Part 1	E	Scott Scattergood			
4	Writing Part 2	E	Scott Scattergood			
5	Unit 1 - Food for Life	E	Scott Scattergood			
6	Unit 2 Express Yourself	E	Scott Scattergood			
7	Unit 3 Cities	E	Scott Scattergood			
8	MID-TERM EXAM	E	Scott Scattergood			
9	Speaking Test preparation	E	Scott Scattergood			
10	Midterm Speaking Test	E	Scott Scattergood			
11	Unit 4 The Body	E	Scott Scattergood			
12	Advice	E	Scott Scattergood			
13	Unit 8 - Conservation	E	Scott Scattergood			
14	Conditional Sentences	E	Scott Scattergood			
15	Review and Final Speaking Test	E	Scott Scattergood			
16	FINAL EXAM	E	Scott Scattergood			

11. Other items of notification

Course Name	Course type (credit/hours)	교필(3/3)		Course code	X126
	Target students Division/major/grade	Freshmen/1학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(성201) 수C(성201)(성201)		English Grade	A(100%English)
Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)	Scott Scattergood (조교수/대학 다산학부대학)			
	Office Room Number	성호관420호	Office phone Number	1824	e-mail
	Office hours	Mon, Wed, Thur: 1:30 - 2:00; Friday: 6-7 PM	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly.

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities.

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics.

(4)Follow the steps in the writing process.

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence.

(6)Write using complete sentences, avoiding fragments and run-on sentences.

(7)Write using capital letters, periods and commas correctly.

(8)Write with acceptable academic style and proper paragraph format.

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture

[V] discussion and debate

[ ] team project(presentation and case studies)

[ ] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[ ] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook or the material in the Lectures Notes section of Blackboard.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 absences = 2 points off; 3 absences = 4 points off; 4 absences = 6 points off...
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews / pronunciation	E	Scott Scattergood			
2	Conversations	E	Scott Scattergood			
3	Writing Part 1	E	Scott Scattergood			
4	Writing Part 2	E	Scott Scattergood			
5	Unit 1 - Food for Life	E	Scott Scattergood			
6	Unit 2 Express Yourself	E	Scott Scattergood			
7	Unit 3 Cities	E	Scott Scattergood			
8	MID-TERM EXAM	E	Scott Scattergood			
9	Speaking Test preparation	E	Scott Scattergood			
10	Midterm Speaking Test	E	Scott Scattergood			
11	Unit 4 The Body	E	Scott Scattergood			
12	Advice	E	Scott Scattergood			
13	Unit 8 - Conservation	E	Scott Scattergood			
14	Conditional Sentences	E	Scott Scattergood			
15	Review and Final Speaking Test	E	Scott Scattergood			
16	FINAL EXAM	E	Scott Scattergood			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X127
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(성233) 수C(성233)(성233)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Nicholas McGhie (조교수/대학 다산학부대학)			
	Office Room Number	성호관 419호	Office phone Number	031-219-3256	e-mail
	Office hours	24-7 Online FB Messenger	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations.

4. Teaching Method

☑	lecture	☐	discussion and debate
☑	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☑	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 3 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

We will do the Writing Booklet first, then the textbook along with the Grammar Booklet for extra review.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews	E	Nicholas McGhie	Online & Video		
2	Unit 1 - Food from the Earth	E	Nicholas McGhie	Online & Video		
3	Unit 2 - Express Yourself	E	Nicholas McGhie	Online & Video		
4	Unit 3 - Cities	E	Nicholas McGhie	Online & Video		
5	Unit 4 - The Body	E	Nicholas McGhie	Online & Video		
6	Unit 5 - Challenges	E	Nicholas McGhie	Online & Video		
7	Unit 6 - Transitions	E	Nicholas McGhie	Online & Video		
8	MID-TERM EXAM	E	Nicholas McGhie	Online & Video		
9	Unit 7 - Luxuries	E	Nicholas McGhie	Online & Video		
10	Unit 8 - Nature	E	Nicholas McGhie	Online & Video		
11	Unit 9 - Life in the Past	E	Nicholas McGhie	Online & Video		
12	Unit 10 - Travel	E	Nicholas McGhie	Online & Video		
13	Unit 11 - Careers	E	Nicholas McGhie	Online & Video		
14	Unit 12 - Celebrations	E	Nicholas McGhie	Online & Video		
15	Review	E	Nicholas McGhie	Online & Video		
16	FINAL EXAM	E	Nicholas McGhie	Online & Video		

11. Other items of notification

<h1 style="text-align:center">Speaking and Writing in English</h1>

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X128
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(성234) 수C(성234)(성234)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Philip Chivers (조교수/대학 다산학부대학)			
	Office Room Number	성호관 419	Office phone Number	031-219-2831	e-mail
	Office hours	Tues B 12.00-13.15, Weds B 10.30-11.45, Thurs C 10.30-11.45	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail	philip@ajou.ac.kr

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V]	lecture	[V]	discussion and debate
[ ]	team project(presentation and case studies)	[ ]	experiments(role-playing,etc)
[ ]	designing and production	[ ]	on-site learning(on-site training)

[V] others (This class will involve lots of group work to improve fluency through conversation practice.

5. Support Systems in Use

[V]	e-class	[ ]	automatic recording system	[ ]	web-based assignment
[ ]	cyber lecture	[ ]	blended learning(combination of online and offline teaching)		
[ ]	class behavior analyazing system	[ ]	others		

6. Teaching Tools

[ ]	PBL(Problem Based Learning)	[ ]	CBL(Case Based Learning)
[ ]	TBL(Team Based Learning)	[ ]	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

* We often use Google docs. Make sure that you are prepared to access Google apps.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			Students will participate in several online quizzes which will contribute to their participation score
presentation		30%	Students will perform a presentation during the course as well as a final oral test which will evaluate the student's speaking skills
discussion		10%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course Introduction	E	Philip Chivers			
2	Academic Writing	E	Philip Chivers			
3	Academic Writing	E	Philip Chivers			
4	Academic Writing / Unit 1 - Food for Life	E	Philip Chivers			
5	Unit 1 - Food for Life / Unit 2 - Express Yourself	E	Philip Chivers			
6	Unit 3 - Cities	E	Philip Chivers			
7	Unit 4 - The Body / Unit 5 - Challenges	E	Philip Chivers			
8	MID-TERM EXAM	E	Philip Chivers			
9	Unit 8 - Conservation	E	Philip Chivers			
10	Unit 9 - Life Now and in the Past	E	Philip Chivers			
11	Formal Presentations	E	Philip Chivers			
12	Unit 10 - Travel	E	Philip Chivers			
13	Unit 11 - Careers	E	Philip Chivers			
14	Unit 12 - Celebrations	E	Philip Chivers			
15	Speaking Test	E	Philip Chivers			
16	FINAL EXAM	E	Philip Chivers			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X129
	Target students Division/major/grade	/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월C(성235) 수C(성235)(성235)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Joshua Houser (조교수/대학 다산학부대학)			
	Office Room Number	성호관 421호	Office phone Number	2844	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course provides students with an opportunity to improve the rreading and listening skills in English. Students will be also able to increase the awareness of other cultures including the North American culture by reading articles about a wide variety ofcurrentissues.

2. Course Objectives

3. Class types and activities

(1) Students are required to hand in a variety of homework assignments such a summary of the   textbook material or a short report on related topics.
(2) Students are expected to choose a chapter and make a grouppresentation on a related topic.
(3) Regular quizzes (four quizzes) will be given in class to ensure that students are learning the   course material.
(4) Students are responsible for attending class regularly. Students must obtain specific
information about the material covered in class on the day they were absent and hand in all   the homework assignments. Furthermore, unexcused absences will have the following   consequences on the students' final score:
1 unexcused absence = 0 point reduction
2 unexcused absence = 2 point reduction
3 unexcused absence = 3 point reduction
4 unexcused absence = 4 point reduction

cf. 2 times late = 1 unexcused absence
    arriving more than 20 minutes late = 1 unexcused absence

(5) Absences are excused only in the case of a medical excuse verified by a doctor's note
(prescriptions are not allowed), a military excuse, or a death in the family.

4. Teaching Method

[V] lecture   [V] discussion and debate

[V] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[V] others ( )

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		20	
final exam		20	
quiz		30	
presentation		10	
discussion		10	
homework		10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
	World English 2 Third Edition	Martin Milner	Cengage Learning	2014

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	course intro	K	Joshua Houser			
2	Chapter 1 (Reading 1)	K	Joshua Houser			
3	Chapter 1 (Reading 3)	K	Joshua Houser			
4	Chapter 2 (Reading 1)	K	Joshua Houser			
5	Chapter 2 (Reading 2)	K	Joshua Houser			
6	Chapter 3 (Reading 1/2)	K	Joshua Houser			
7	Chapter 4 (Reading 2)	K	Joshua Houser			
8	mid-term exam	K	Joshua Houser			
9	Chapter 5 (Reading 1)	K	Joshua Houser			
10	Chapter 5 (Reading 2)	K	Joshua Houser			
11	Chapter 6 (Reading 1)	K	Joshua Houser			
12	Chapter 6 (Reading 2)	K	Joshua Houser			
13	Chapter 7 (Reading 1)	K	Joshua Houser			
14	Chapter 7 (Reading 2)	K	Joshua Houser			
15	Chapter 9 (Reading 2)	K	Joshua Houser			
16	final exam	K	Joshua Houser			

11. Other items of notification

<h1 style="text-align:center">Speaking and Writing in English</h1>

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X130
	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월E(성333) 수E(성333)(성333)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Donald Hearn (조교수/대학 다산학부대학)			
	Office Room Number	다산관 215-2호	Office phone Number	2817	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[V] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
discussion		20%	Participation: Students are expected to speak English during class time and to complete all in-class tasks as well as homework assignments.
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organization of the paragraph, adequate development of the subject and proper formatting.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Donald Hearn	대면		
2	Formal English	E	Donald Hearn	대면		
3	Unit 1 - Food from the Earth	E	Donald Hearn	대면		
4	Formal English, sentence-level correction & editing	E	Donald Hearn	대면		
5	Unit 2 - Express Yourself	E	Donald Hearn	대면		
6	Paragraph formatting, structure	E	Donald Hearn	대면		
7	Unit 2 - Express Yourself	E	Donald Hearn	대면		
8	MID-TERM EXAM	E	Donald Hearn	대면		
9	Unit 3 - Cities	E	Donald Hearn	대면		
10	Paragraph structure - Supporting sentences	E	Donald Hearn	대면		
11	Unit 3 - Cities	E	Donald Hearn	대면		
12	Unit 4 - The Body	E	Donald Hearn	대면		
13	Unit 4 - The Body	E	Donald Hearn	대면		
14	Unit 5 - Challenges	E	Donald Hearn	대면		
15	Review	E	Donald Hearn	대면		
16	FINAL EXAM	E	Donald Hearn	대면		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X131
	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화C(다105) 금C(다105)(다105)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Katie Mae Klemsen (조교수/대학 다산학부대학)			
	Office Room Number	다산관 215-1	Office phone Number	3243	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

[V] lecture

[V] discussion and debate

[ ] team project(presentation and case studies)

[ ] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[V] cyber lecture

[ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)

[ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
discussion		20%	Participation: Students are expected to speak English during class time and to complete all in-class tasks as well as homework assignments.
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organization of the paragraph, adequate development of the subject and proper formatting.
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
2	Formal English	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
3	Unit 1 – Food from the Earth	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
4	Formal English, sentence-level correction & editing	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
5	Unit 2 – Express Yourself	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
6	Paragraph formatting, structure	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
7	Unit 2 – Express Yourself	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
8	MID-TERM EXAM	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
9	Unit 3 – Cities	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
10	Paragraph structure – Supporting sentences	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
11	Unit 3 – Cities	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
12	Unit 4 – The Body	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
13	Unit 4 – The Body	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
14	Unit 5 – Challenges	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)실시간화상 (live online class)		
15	Review	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		
16	FINAL EXAM	E	Katie Mae Klemsen	대면 (pandemic conditions permitting)		

11. Other items of notification

Speaking and Writing in English

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>교필(3/3)</td><td>Course code</td><td>X132</td></tr>
<tr><td>Target students Division/major/grade</td><td>Freshmen/1학년</td><td>Openning semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>화B(성232) 목A(성232)(성232)</td><td>English Grade</td><td>A(100%English)</td></tr>
<tr><td rowspan="4">Reference to this course</td><td>Prerequisite courses</td><td colspan="3"></td></tr>
<tr><td>Related basic courses</td><td colspan="3"></td></tr>
<tr><td>Recommanded concurrent courses</td><td colspan="3"></td></tr>
<tr><td>Related advanced courses</td><td colspan="3"></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="5">Kevin Hawthorne (조교수/대학 다산학부대학)</td></tr>
<tr><td>Office Room Number</td><td>성호관420호</td><td>Office phone Number</td><td>2830</td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td>화3:00-4:30, 수3:00-4:30</td><td>Homepage address</td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="5"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

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(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

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(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies) [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [V] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2020	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction	E	Kevin Hawthorne	face-to-face		
2	Unit 1 - Food from the Earth	E	Kevin Hawthorne	face-to-face		
3	Unit 2 - Express Yourself	E	Kevin Hawthorne	face-to-face		
4	Unit 3 - Cities	E	Kevin Hawthorne	face-to-face		
5	Unit 4 - The Body	E	Kevin Hawthorne	face-to-face		
6	Unit 5 - Challenges	E	Kevin Hawthorne	face-to-face		
7	Unit 6 - Transitions	E	Kevin Hawthorne	face-to-face		
8	MID-TERM EXAM	E	Kevin Hawthorne	face-to-face		
9	Unit 7 - Luxuries	E	Kevin Hawthorne	face-to-face		
10	Unit 8 - Nature	E	Kevin Hawthorne	face-to-face		
11	Unit 9 - Life in the Past	E	Kevin Hawthorne	face-to-face		
12	Unit 10 - Travel	E	Kevin Hawthorne	face-to-face		
13	Unit 11 - Careers	E	Kevin Hawthorne	face-to-face		
14	Unit 12 - Celebrations	E	Kevin Hawthorne	face-to-face		
15	Review	E	Kevin Hawthorne	face-to-face		
16	FINAL EXAM	E	Kevin Hawthorne	face-to-face		

11. Other items of notification

English 1 will be taught face-to-face in the classroom this semester (unless there is a policy change).
Please be prepared to attend class, and to carefully follow all necessary Covid-19 safety measures.

(If there is a policy change, students will be notified)

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X133
	Target students Division/major/grade	1st Year/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(다506) 목A(다506)(다506)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Donald Hearn (조교수/대학 다산학부대학)			
	Office Room Number	다산관 215-2호	Office phone Number	2817	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

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(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations. Students will also learn to produce an academic paragraph from a model which includes a topic sentence, supporting sentences and a concluding sentence, developing and supporting a main idea with specific reasons, details and examples.

4. Teaching Method

☑	lecture	☑	discussion and debate
☐	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☐	automatic recording system	☐	web-based assignment
☑	cyber lecture	☐	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☐	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade; 3 absences = 4 points off; 4 absences = 6 points off; 5 absences = 4 points off; 6 unexcused absences = F
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quiz			
presentation		20%	Students will complete a final oral test which will evaluate each student's speaking skills in an unscripted conversation or interview.
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etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction and syllabus; Classroom English	E	Donald Hearn	대면		
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4	Formal English, sentence-level correction & editing	E	Donald Hearn	대면		
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6	Paragraph formatting, structure	E	Donald Hearn	대면		
7	Unit 2 - Express Yourself	E	Donald Hearn	대면		
8	MID-TERM EXAM	E	Donald Hearn	대면		
9	Unit 3 - Cities	E	Donald Hearn	대면		
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11	Unit 3 - Cities	E	Donald Hearn	대면		
12	Unit 4 - The Body	E	Donald Hearn	대면		
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14	Unit 5 - Challenges	E	Donald Hearn	대면		
15	Review	E	Donald Hearn	대면		
16	FINAL EXAM	E	Donald Hearn	대면		

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X134
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(성333) 목A(성333)(성333)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Scott Scattergood (조교수/대학 다산학부대학)			
	Office Room Number	성호관420호	Office phone Number	1824	e-mail
	Office hours	Mon, Wed, Thur: 1:30 - 2:00; Friday: 6-7 PM	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

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(3)Use appropriate vocabulary and grammar to express their ideas about the course topics.

(4)Follow the steps in the writing process.

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence.

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4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook or the material in the Lectures Notes section of Blackboard.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
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discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 2 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning	2020

10. Class system and Class shedule

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews / pronunciation	E	Scott Scattergood			
2	Conversations	E	Scott Scattergood			
3	Writing Part 1	E	Scott Scattergood			
4	Writing Part 2	E	Scott Scattergood			
5	Unit 1 - Food for Life	E	Scott Scattergood			
6	Unit 2 Express Yourself	E	Scott Scattergood			
7	Unit 3 Cities	E	Scott Scattergood			
8	MID-TERM EXAM	E	Scott Scattergood			
9	Speaking Test preparation	E	Scott Scattergood			
10	Midterm Speaking Test	E	Scott Scattergood			
11	Unit 4 The Body	E	Scott Scattergood			
12	Advice	E	Scott Scattergood			
13	Unit 8 - Conservation	E	Scott Scattergood			
14	Conditional Sentences	E	Scott Scattergood			
15	Review and Final Speaking Test	E	Scott Scattergood			
16	FINAL EXAM	E	Scott Scattergood			

11. Other items of notification

Speaking and Writing in English

Course Name	Course type (credit/hours)	교필(3/3)	Course code	X135
	Target students Division/major/grade	Freshmen/1학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화B(성233) 목A(성233)(성233)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	Joseph Ball (조교수/대학 다산학부대학)				
	Office Room Number	성호관417호	Office phone Number	2846	e-mail	
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

English 1 is a required course for all undergraduate students. This course concentrates on English speaking and writing. Speaking lessons include pair work, small group tasks and class discussions. Writing lessons prepare students for academic paragraph-writing. The language of instruction is English and students are expected to communicate in English during class.

2. Course Objectives

(1)Notice English pronunciation, intonation and stress patterns and practice speaking more clearly. (related to P07)

(2)Speak more confidently and with less hesitation by repeatedly speaking English in pairs, groups and whole-class activities. (related to P07)

(3)Use appropriate vocabulary and grammar to express their ideas about the course topics. (related to P07)

(4)Follow the steps in the writing process. (related to P07)

(5)Write using paragraph structure, which includes a topic sentence, supporting sentences, and a concluding sentence. (related to P07)

(6)Write using complete sentences, avoiding fragments and run-on sentences. (related to P07)

(7)Write using capital letters, periods and commas correctly. (related to P07)

(8)Write with acceptable academic style and proper paragraph format. (related to P07)

3. Class types and activities

Students will gain confidence and improve their English speaking abilities by practicing expressions and dialogs and making their own conversations.

4. Teaching Method

☑	lecture	☐	discussion and debate
☑	team project(presentation and case studies)	☐	experiments(role-playing,etc)
☐	designing and production	☐	on-site learning(on-site training)
☐	others		

5. Support Systems in Use

☑	e-class	☑	automatic recording system	☐	web-based assignment
☑	cyber lecture	☑	blended learning(combination of online and offline teaching)		
☐	class behavior analyazing system	☐	others		

6. Teaching Tools

☐	PBL(Problem Based Learning)	☑	CBL(Case Based Learning)
☐	TBL(Team Based Learning)	☐	others

7. Knowledge and ability required for taking this course

* Before each class please preview the appropriate unit in the textbook.
  수업시간 전에 반드시 책을 읽어 오시기 바랍니다.

* Online homework should be completed before class.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10%	Unexcused absences will reduce the attendance grade as follows: 2 unexcused absences = 2 points off the attendance grade 3 unexcused absences = 4
midterm exam		15%	Mid-Term Exam
final exam		15%	Final Exam
quiz			
presentation		20%	Students will complete several oral assignments during the course as well as a final oral test which will evaluate the student's speaking skills in an
discussion		20%	Students are expected to speak English during class time. Students are expected to complete all in-class tasks as well as homework assignments, includ
homework		20%	Students will complete one academic paragraph and additional writing assignments. Writing is evaluated on the correct use of formal English, the organ
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	World English 3 (third edition)	Johannsen, K. and Tarver-Chase, R.	National Geographic Learning/Cengage Learning, 2015	

10. Class system and Class shedule

We will do the Writing Booklet first, then the textbook along with the Grammar Booklet for extra review.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Interviews	E	Joseph Ball	Online & Video		
2	Unit 1 - Food from the Earth	E	Joseph Ball	Online & Video		
3	Unit 2 - Express Yourself	E	Joseph Ball	Online & Video		
4	Unit 3 - Cities	E	Joseph Ball	Online & Video		
5	Unit 4 - The Body	E	Joseph Ball	Online & Video		
6	Unit 5 - Challenges	E	Joseph Ball	Online & Video		
7	Unit 6 - Transitions	E	Joseph Ball	Online & Video		
8	MID-TERM EXAM	E	Joseph Ball	Online & Video		
9	Unit 7 - Luxuries	E	Joseph Ball	Online & Video		
10	Unit 8 - Nature	E	Joseph Ball	Online & Video		
11	Unit 9 - Life in the Past	E	Joseph Ball	Online & Video		
12	Unit 10 - Travel	E	Joseph Ball	Online & Video		
13	Unit 11 - Careers	E	Joseph Ball	Online & Video		
14	Unit 12 - Celebrations	E	Joseph Ball	Online & Video		
15	Review	E	Joseph Ball	Online & Video		
16	FINAL EXAM	E	Joseph Ball	Online & Video		

11. Other items of notification

<h1 style="text-align:center">Strategic Management(Capstone Design))</h1>

Course Name	Course type (credit/hours)	전필(3/3)		Course code	I021
	Target students Division/major/grade	경영학부/4학년		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(다B106) 목B(다B106)(다B106)		English Grade	A(100%English)

Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommanded concurrent courses	
	Related advanced courses	

Instructor	Name (title/division)	김경호 (교수/경영대학 경영학과)			
	Office Room Number	다산관431호	Office phone Number	3672	e-mail
	Office hours	Web/Fri: 4pm-5pm; Other times available by appointment	Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course introduces students to issues associated how to formulate and implement firm strategy in the global environment. It draws on building a fundamental understanding of how and why some firms achieve and sustain superior performance. This course primarily aims at enabling students to understand and analyze the factors that affect organizations' long-run economic performance and to provide them with the tools to make recommendations to organization on how they can improve their long-term performance.

2. Course Objectives

This course provides students with specific tools that will enable them:
to assess the structure of firms' external environments and understand how these affect expected long-run industry performance
to evaluate firms competitive positioning and interaction, and assess firm-level resources and capabilities
to develop appropriate and superior strategies at the business-unit and corporate levels
to assess the dynamics of competition and understand how economic, social, political, and technological forces can determine the need for strategic re-positioning and affect long-term profitability
to understand and manage the complex ethical and social issues facing organizations as they develop and implement their strategies
This class is designed to function like an MBA course and to prepare students (a) for potential MBA courses in the future and (b) for professional experience. Thus, this emphasizes class preparation and class discussion

3. Class types and activities

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4. Teaching Method

☑ lecture	☑ discussion and debate
☑ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☑ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam		30	
final exam			
quiz			
presentation		30	Consulting Project
discussion		30	In class participation
homework		10	Individual Assignment
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Reading Articles will be distributed for each class			
Sub	The Management of Strategy-Concepts(over 10th Edition)	Ireland, Hoskisson, and Hitt	Cengage	

10. Class system and Class shedule

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Session 1: Introduction and Course Overview/Session 2: Conceptual and Practical Introduction Strategy	E	김경호			
2	Session 3: Understanding The Five Forces/ Session 4: Economics of Industry	E	김경호			

< Class Schedule >

Weeks	Topics	lang uage	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Session 5 : Industry Trends, Dynamics, and Evolution/ Session 6: Competitive Positioning Concepts	E	김경호			
4	Session 7 : Competitive Positioning In Action /Session 8: Competitive positioning in action – dual advantage	E	김경호			
5	Session 9 : Firm strategy and industry evolution (I) /Session 10: Firm Strategy and Industry Evolution (II)	E	김경호			
6	Session 11: Corporate strategy concepts, Session 12 : Corporate strategy in practice (I)	E	김경호			
7	Session 13: Target company introduction, Session 14: Midterm review	E	김경호			
8	Session 15 and 16 : Midterm Exam (Good Luck!!!)– No Class–	E	김경호			
9	Session 17 and 18: Time for Team Project (Meeting with Faculty is available on demand)	E	김경호			
10	Session 19: Strategy Implementation – Governance /Session 20: Strategy Implementation In Action ? Social Responsibility	E	김경호			
11	Session 21: Concepts In Technology Strategy /Session 22: Understanding Disruptive Change (I)	E	김경호			
12	Session 23: Understanding Disruptive Change (II)/Session 24: Firm Strategy – Cooperative Strategy	E	김경호			
13	Session 25: Global Strategy /Session 26: Organizational Structure and Control Mechanism	E	김경호			
14	Session 27 and 28: Time For Team Projects	E	김경호			
15	Session 29 and 30: Team Project Final Presentation	E	김경호			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
16	Session 31 and 32: Final Exam Week	E	김경호			

11. Other items of notification

The principles of Sociology 2

<table>
<tr><td rowspan="3">Course
Name</td><td>Course type
(credit/hours)</td><td>전필(3/3)</td><td>Course code</td><td>K076</td></tr>
<tr><td>Target students
Division/major/grade</td><td>사회학과/1학년</td><td>Openning
semester</td><td>2023 2ND SEMESTER</td></tr>
<tr><td>Class time
and classroom</td><td>월B(율357) 목B(율357)(율357)</td><td>English
Grade</td><td>A(100%English)</td></tr>
</table>

<table>
<tr><td rowspan="4">Reference
to this
course</td><td>Prerequisite courses</td><td></td></tr>
<tr><td>Related basic courses</td><td></td></tr>
<tr><td>Recommanded
concurrent courses</td><td></td></tr>
<tr><td>Related
advanced courses</td><td></td></tr>
</table>

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="5">호정화 (교수/사회과학대학 사회학과)</td></tr>
<tr><td>Office Room
Number</td><td>율곡관 420호</td><td>Office phone
Number</td><td>2778</td><td>e-mail</td><td></td></tr>
<tr><td>Office
hours</td><td></td><td>Homepage
address</td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">Teaching
Assistant</td><td>Name (title/division)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Office Room
Number</td><td></td><td>Office phone
Number</td><td></td><td>e-mail</td><td></td></tr>
</table>

1. Introduction

Sociology is a scientific discipline of society and people within it. Its main subjects are the process and outcome of complex interplay between society and people. The scope of sociology is extremely wide, ranging from day-to-day interaction between two friends to international relations over environmental issues. Sociology has unique perspectives to understand society and individual lives: sociological imagination which aims to understand individual and private issues in the context of broader social and public structure. This course aims to introduce sociology by exposing students to essential concepts of sociology, various subfields, and classical and contemporary social issues. Students who have taken this course successfully will gain sociological imagination and will be able to apply this perspective to various public and private issues and to understand private and public lives in different lights.

2. Course Objectives

Students who have taken this course successfully will gain sociological imagination and will be able to apply this perspective to various public and private issues and to understand private and public lives in different lights.

3. Class types and activities

Combination of lectures by lecturer and seminar-style discussions by students

4. Teaching Method

☑ lecture	☑ discussion and debate
☑ team project(presentation and case studies)	☐ experiments(role-playing,etc)
☐ designing and production	☐ on-site learning(on-site training)
☐ others	

5. Support Systems in Use

☑ e-class	☐ automatic recording system	☐ web-based assignment
☐ cyber lecture	☐ blended learning(combination of online and offline teaching)	
☐ class behavior analyazing system	☐ others	

6. Teaching Tools

☐ PBL(Problem Based Learning)	☐ CBL(Case Based Learning)
☐ TBL(Team Based Learning)	☐ others

7. Knowledge and ability required for taking this course

Sociological curiosity, ability and motibation to ask sociological questions and to answer them.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	14	10	
midterm exam			
final exam	1	35	
quiz			
presentation			
discussion	1	15	
homework	1	40	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Sociology	A. Giddens, P. Sutton	Polity	2021
Main	Essential concepts in sociology	A. Giddens, P. Sutton	Polity	2021
Sub	현대사회학	A. Giddens, P. Sutton	을유문화사	2018
Sub	사회학의 핵심 개념들	A. Giddens, P. Sutton	을유문화사	2018

10. Class system and Class shedule

사회조사의 전 과정을 이론적으로 학습하고 실습한다.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	E	호정화			
2	Sociological imagination, again	E	호정화			
3	Sociological research methods	E	호정화			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Social interactions and everyday life-1	E	호정화			
5	Social interactions and everyday life-2	E	호정화			
6	The life course-1	E	호정화			
7	The life course-2	E	호정화			
8	Midterm exam	E	호정화			
9	Family and intimate relationships-1	E	호정화			
10	Family and intimate relationships-2	E	호정화			
11	Health, illness and disability-1	E	호정화			
12	Health, illness and disability-2	E	호정화			
13	Crime and deviance-1	E	호정화			
14	Crime and deviance-2	E	호정화			
15	Review	E	호정화			
16	Final exam	E	호정화			

11. Other items of notification

Theory of Computation

Course Name	Course type (credit/hours)	전선(3/3)	Course code	F076
	Target students Division/major/grade	소프트웨어학과/3학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	화D(팔409) 목C(팔409)(팔409)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	Discrete mathematics		
	Related basic courses	Algorithms		
	Recommanded concurrent courses	AI		
	Related advanced courses			

Instructor	Name (title/division)	조다정 (조교수/소프트웨어융합대학 소프트웨어학과)			
	Office Room Number		Office phone Number	2635	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course provides formal language and automata theory. We study the fundamental
knowledge on computation and computability. In particular, we examine finite-state
automata (regular languages), pushdown automata (context-free languages) and Turing
machines (unrestricted languages).

2. Course Objectives

The goal of this course is to provide students with an understanding of basic concepts in the theory of
computation, including models of computation such as Turing machines; theory of programming languages,
including grammars, parsing, syntax and semantics.
At the end of this course students will:
-be able to construct finite state machines and the equivalent regular expressions.
-be able to prove the equivalence of languages described by finite state machines and regular expressions.
-be able to construct pushdown automata and the equivalent context free grammars.
-be able to prove the equivalence of languages described by pushdown automata and context free grammars.
-be able to construct Turing machines and Post machines.
-be able to prove the equivalence of languages described by Turing machines and Post machines

3. Class types and activities

- Mostly lectures.
- Lectures will be executed by offline in-person lecture + online lecture (using recorded video)
- 4 assignments will be issued.
- Evaluation will be measured with Mid-term exam, final exam, and assignments

*The goal of assignment is to give you practice in mastering the course material. Specifically, you should spend at least 100?120 minutes trying to solve each problem beforehand.

4. Teaching Method

☑ lecture

☐ discussion and debate

☐ team project(presentation and case studies)

☐ experiments(role-playing,etc)

☐ designing and production

☐ on-site learning(on-site training)

☐ others

5. Support Systems in Use

☑ e-class

☐ automatic recording system

☐ web-based assignment

☐ cyber lecture

☐ blended learning(combination of online and offline teaching)

☐ class behavior analyazing system

☐ others

6. Teaching Tools

☑ PBL(Problem Based Learning)

☐ CBL(Case Based Learning)

☐ TBL(Team Based Learning)

☐ others

7. Knowledge and ability required for taking this course

Knowledge about discrete mathematics (e.g., graphs, trees, logic, and proof techniques) is required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5%	
midterm exam		40%	
final exam		40%	
quiz			
presentation			
discussion			
homework		15%	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Introduction to Automata Theory, Languages, and Computation, 3rdedition	Hopcroft, Motwani and Ullman	Pearson Addison Wesley	

10. Class system and Class shedule

This course covers the following topics:
-Introduction: Chapter 1
-Finite-state automata: Chapter 2
-Regular languages and expressions: Chapter 3
-Regular language properties: Chapter 4
-Context-free languages: Chapter 5
-Pushdown automata: Chapter 6
-Context-free language properties: Chapter 7
-Turing machines: Chapter 8

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	E	조다정			
2	Finite-State automata	E	조다정			
3	Regular expressions and languages	E	조다정			

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Regular expressions and languages	E	조다정			
5	Regular expressions and languages	E	조다정			
6	Regular language properties	E	조다정			
7	Regular language properties	E	조다정			
8	Midterm exam	E	조다정			
9	Context-free languages	E	조다정			
10	Context-free languages	E	조다정			
11	Pushdown automata	E	조다정			
12	Context-free language properties	E	조다정			
13	Context-free language properties	E	조다정			
14	Turing machines	E	조다정			
15	Turing machines	E	조다정			
16	Final exam	E	조다정			

11. Other items of notification

Traffic Study and Data Analytics

Course Name	Course type (credit/hours)	전필(3/3)	Course code	E051
	Target students Division/major/grade	교통시스템공학과/2학년	Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(팔211) 목B(팔211)(팔211)	English Grade	A(100%English)

Reference to this course	Prerequisite courses	없음
	Related basic courses	없음
	Recommanded concurrent courses	교통조사실습
	Related advanced courses	교통제어

Instructor	Name (title/division)		소재현 (조교수/공과대학 교통시스템공학과)		
	Office Room Number		Office phone Number	2535	e-mail
	Office hours		Homepage address		
Teaching Assistant	Name (title/division)				
	Office Room Number	팔달관 1008호	Office phone Number		e-mail

1. Introduction

Observation of real traffic conditions and drivers behaviors has always been the basis for traffic engineering studies. Therefore, good traffic engineers should be familiar with diverse methods to collect any traffic data necessary for in-depth traffic engineering studies. To this end, this class, Traffic Study, is initiated to deliver various skills and methodologies for field traffic data collection in a safe and efficient way.

2. Course Objectives

This course is designed to deliver students with followings;
1) Basic theories related with traffic studies,
2) Safety issues during traffic studies,
3) Skills and techniques for traffic studies,
4) Interpretation skill on the collected data, and
5) Basic statistical skill to analyze the data.

3. Class types and activities

Course Structure:
The course works will be conducted based on the following four steps;
Step1: Explanation on basic concepts, usages, and examples,
Step2: Explanation on the methodologies for diverse traffic studies,
Step3: Practices using examples and homework, and
Step4: Questions and answers, feedback to the subject step, if necessary.

4. Teaching Method

[V] lecture

[ ] discussion and debate

[V] team project(presentation and case studies)

[ ] experiments(role-playing,etc)

[ ] designing and production

[ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class

[ ] automatic recording system

[ ] web-based assignment

[ ] cyber lecture

[V] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system

[ ] others

6. Teaching Tools

[ ] PBL(Problem Based Learning)

[V] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)

[ ] others

7. Knowledge and ability required for taking this course

All students are required to understand basic concepts and terminologies related with traffic engineering and traffic flow analysis in advance. Students will use appropriate software like Excel to conduct actual traffic studies and analyses.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		5	Attendance
midterm exam	1	25	Mid-term examination
final exam	1	35	final examination
quiz			
presentation	1	25	Project and presentation
discussion			
homework		10	homeworks
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Manual of Transportation Engineering Studies (2nd Edition)	Institute of Transportation Engineers	ITE	2010
Ref.	Traffic Engineering	Roess, Roger 외	Prentice Hall	2011
Ref.	교통공학원론	도철웅	청문각	2004

10. Class system and Class shedule

Lectures are given twice weekly. Lectures include a mixture of presentation of material using PowerPoint and interactive exercises. Participation is encouraged, but not required. Attendance will be taken at each lecture. It is noted that absences for the first lectures do not count in grading. There are no lectures on exam days.

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction & Safety during traffic studies	K	소재현	Lecture		
2	Volume Studies & Spot Speed Studies	K	소재현	Lecture		

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
3	Intersection and Driveway Studies: Introduction & Delay	K	소재현	Lecture		
4	Intersection and Driveway Studies: Queue length & Saturation Flow and Lost Time	K	소재현	Lecture		
5	Intersection and Driveway Studies: Gap and Gap acceptance & Sight Distance	K	소재현	Lecture		
6	Compliance with Traffic Control Devices & AV warnings	K	소재현	Lecture		
7	Travel-Time and Delay Studies	K	소재현	Lecture		
8	Midterm examination	K	소재현	-		
9	Public Transportation Studies & Goods Movement Studies	K	소재현	Lecture		
10	Parking Studies	K	소재현	Lecture		
11	Traffic Collision Studies & Surrogate Safety Measure	K	소재현	Lecture		
12	Multiverse Simulation & Co-Simulation	K	소재현	Lecture		
13	Mobile Comm. Data & Processing	K	소재현	Lecture		
14	Mobility Big Data & Processing	K	소재현	Lecture		
15	Other Data & Handling Technique	K	소재현	Lecture		
16	Final examination	K	소재현	-		

11. Other items of notification

Homework is an essential tool for learning class materials and exercising methodologies for traffic studies. Except when stated otherwise, homework will be due at the beginning of the class time as noted. Late homework will not be accepted. In addition, homework should be done without any assistance from other students. No cheating on homework is allowed. Any suspicious homework will not be accepted. Each homework must have a cover sheet saying the name and ID of the student. It is noted that the homework without a cover sheet will not be accepted.

Western Music History

Course Name	Course type (credit/hours)	교필(3/3)		Course code	X530
	Target students Division/major/grade	/		Openning semester	2023 2ND SEMESTER
	Class time and classroom	월B(성135) 목B(성135)(성135)		English Grade	A(100%English)
Reference to this course	Prerequisite courses				
	Related basic courses				
	Recommanded concurrent courses				
	Related advanced courses				

Instructor	Name (title/division)		채수아 (강사/대학 다산학부대학)			
	Office Room Number		Office phone Number		e-mail	
	Office hours	월 11:15~12	Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	chae1990@ajou.ac.kr

1. Introduction

This course is designed to develop a knowledge of the principal events in the course of development of classical music in western history. By providing familiarity with classical music, students will develop interest in classical music and appreciate various styles in each historical period. This class is related to the aesthetic, convergence, and cultural openness of our university.

2. Course Objectives

Student will gain knowledge and understanding of western classical music of various styles, historical periods, and cultural sources.

Students will have easy and close access to Western classical music.
Students will realize the timeless charm of classical music that makes everyones life rich and full.
Students will have the ability to choose valuable classical music to listen to.

3. Class types and activities

1. live. face to face class
2. lecture, listening/watching various materials
3. discussion, Q & A

4. Teaching Method

[V] lecture   [V] discussion and debate

[ ] team project(presentation and case studies)   [ ] experiments(role-playing,etc)

[ ] designing and production   [ ] on-site learning(on-site training)

[ ] others

5. Support Systems in Use

[V] e-class   [ ] automatic recording system   [ ] web-based assignment

[ ] cyber lecture   [ ] blended learning(combination of online and offline teaching)

[ ] class behavior analyazing system   [ ] others

6. Teaching Tools

[V] PBL(Problem Based Learning)   [ ] CBL(Case Based Learning)

[ ] TBL(Team Based Learning)   [ ] others

7. Knowledge and ability required for taking this course

English comprehension

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		10	
midterm exam		30	
final exam		30	
quiz			
presentation			
discussion			
homework		30	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Ref.	A History of Western Music	Burkholder, Grout, Palisca	WW Norton & Co.	2019
Ref.	고전음악의 이해	허영한, 이석원	심설당	1994

10. Class system and Class shedule

Starting from the ancient Greek music, lectures will be conducted by chronological order and various musical styles;

Middle-age
Renaissance era

Baroque period
Classical period
Romantic period
Impressionism
20th & 21st century music

Also by various musical genres;

Vocal music
Instrumental music: orchestral music; chamber music; opera; solo repertoires, etc.

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	An overview of western classical music history, Ancient Greek music, Middle Age	E	채수아	Lecture & listening		
2	Renaissance era, Early Baroque music	E	채수아	Lecture & listening		
3	Baroque period: Bach, Handel, Vivaldi, Scarlatti, etc.	E	채수아	Lecture & listening		
4	Baroque period, Rococo style, Galant style	E	채수아	Lecture & listening		
5	Classical period: Haydn, Mozart	E	채수아	Lecture & listening		
6	Mozart, Beethoven	E	채수아	Lecture & listening		
7	Beethoven	E	채수아	Lecture & listening		
8	Mid-term	E	채수아		written exam	
9	Romantic period: Schubert, Mendelssohn, etc.	E	채수아	Lecture & listening		
10	Chopin, Schumann, etc.	E	채수아	Lecture & listening		
11	Liszt, Brahms, etc.	E	채수아	Lecture & listening		
12	Eastern European music: Dvorak, Smetana, the Mighty Handful, etc.	E	채수아	Lecture & listening		
13	Impressionists: Debussy, Ravel	E	채수아	Lecture & listening		
14	20th century: the 2nd Viennese school, Neo-classicism, Avant-garde	E	채수아	Lecture & listening		
15	The synthesis of Eastern and Western music	E	채수아	Lecture & listening		
16	Finals	E	채수아		written exam	

11. Other items of notification