

Introduction to Climate Change

Course Name	Course type (credit/hours)		Elective course(3/3)		Course code	E030
	Target students Division/major/grade		Environmental and safety Engineering/Junior		Opening semester	2020 2ND SEMESTER
	Class time and classroom		Tue A(WEB239)Fri A(WEB239)		English Grade	A(100%English)
Reference to this course	Prerequisite courses					
	Related basic courses		화학, 생물학, 물리학			
	Recommended concurrent courses					
	Related advanced courses					
Instructor	Name (title/division)		Jae Young Lee(Assistant Professor, Environmental and safety Engineering)			
	Office Room Number	서관 313호	Office phone Number		e-mail	
	Office hours	수요일 오후 1:00-3:00		Homepage address	TBA	
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

In this Introduction to Climate Change class, we will understand reasons, effects, and adaptations of climate change. And will learn more about strategies, sustainable developments and renewable energy to solve the climate change problems.
This class will be providing fundamental information for future climate change.

2. Course Objectives

The aim of this class is written below:

- 1.Understanding general information of climate change
- 2.Figuring out effects of climate change in multiple ways and locations
- 3.Learning about adaptation strategies for climate change in worldwide
- 4.Understanding sustainable developments for the future

3. Class types and activities

This class is English lecture based class.

This class will include midterm, final, individual presentation (in Korean) and one report.

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

☒

AjouBb

☐

automatic recording system

☐

web-based assignment

☐

cyber lecture

☐

online content

☐

class behavior analyzing system

☐

others

6. Teaching Tools

☐

PBL(Problem Based Learning)

☒

CBL(Case Based Learning)

☐

TBL(Team Based Learning)

☐

UR(Undergraduate Research)

☐

FL(Flipped Learning)

☐

DSAL(Data Science Active 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	
final exam	1	30	
quiz			
presentation	1	20	
discussion			
homework	1	10	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Sub	Climate Change 2014 Impac, Adaptation, and VulnerabilityPart A: Global and Sectoral Aspects	IPCC	Cambridge University Press	2014
Sub	기후변화와 환경	최금찬 외 9명	동화기술	2015

10. Class system and Class shedule

<ol style="list-style-type: none"> 1. General information of climate change 2. Effects of climate change in diverse environmental aspects 3. Human health effects and social effects 4. Adaptation strategies 5. Key vulnerabilities 6. Sustainable developments and renewable energy

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Introduction	E	Jae Young Lee			
2	General information of climate change	E	Jae Young Lee			
3	Effects of climate change in diverse environments	E	Jae Young Lee			

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Effects of climate change in diverse locations	E	Jae Young Lee			
5	Individual presentation	E	Jae Young Lee			
6	Summary for case-studies	E	Jae Young Lee			
7	Human health and social effects	E	Jae Young Lee			
8	Midterm	E	Jae Young Lee			
9	General adaptation strategies	E	Jae Young Lee			
10	Adaptation opportunities and their limits	E	Jae Young Lee			
11	Adaptation opportunities and their limits	E	Jae Young Lee			
12	Technical solutions	E	Jae Young Lee			
13	Sustainable developments	E	Jae Young Lee			
14	Renewable energy	E	Jae Young Lee			
15	Climate change in Korea	E	Jae Young Lee			
16	Final	E	Jae Young Lee			

11. Other items of notification