

## Physical Chemistry2

Course Name	Course type (credit/hours)	Required course(3/3)	Course code	G055
	Target students Division/major/grade	Chemistry/Sophomore	Opening semester	2020 2ND SEMESTER
	Class time and classroom	Mon E(WH507)Wed E(WH507)	English Grade	
Reference to this course	Prerequisite courses	화학1 화학2		
	Related basic courses	수학 1,2 물리 1,2		
	Recommended concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)		Yoo, Youngdong(Assistant Professor, Chemistry)			
	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

### 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

### 4. Teaching Method

<input checked="" type="checkbox"/> lecture	<input type="checkbox"/> discussion and debate
<input type="checkbox"/> team project(presentation and case studies)	<input type="checkbox"/> experiments(role-playing,etc)
<input type="checkbox"/> designing and production	<input type="checkbox"/> on-site learning(on-site training)
<input type="checkbox"/> others	

### 5. Support Systems in Use

<input checked="" type="checkbox"/> AjouBb	<input type="checkbox"/> automatic recording system	<input type="checkbox"/> web-based assignment
<input type="checkbox"/> cyber lecture	<input type="checkbox"/> online content	
<input type="checkbox"/> class behavior analyzing system	<input type="checkbox"/> others	

### 6. Teaching Tools

<input type="checkbox"/> PBL(Problem Based Learning)	<input type="checkbox"/> CBL(Case Based Learning)	<input type="checkbox"/> TBL(Team Based Learning)
<input type="checkbox"/> UR(Undergraduate Research)	<input type="checkbox"/> FL(Flipped Learning)	<input type="checkbox"/> DSAL(Data Science Active Learning)
<input type="checkbox"/> 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	20%	
final exam	1	20%	
quiz	2	20%	
presentation			
discussion			
homework		30%	
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
Ref.				

## 10. Class system and Class shedule

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### < Class Schedule >

\* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Chapter 12		Yoo, Youngdong			
2	Chapter 13		Yoo, Youngdong			
3	Chapter 14		Yoo, Youngdong			

## < Class Schedule >

\* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Chapter 15		Yoo, Youngdong			
5	Chapter 16		Yoo, Youngdong			
6	Chapter 17		Yoo, Youngdong			
7	Discussion		Yoo, Youngdong			
8	Mid-term exam		Yoo, Youngdong			
9	Chapter 18		Yoo, Youngdong			
10	Chapter 19		Yoo, Youngdong			
11	Chapter 20		Yoo, Youngdong			
12	Chapter 23		Yoo, Youngdong			
13	Chapter 24		Yoo, Youngdong			
14	Chapter 27		Yoo, Youngdong			
15	Discussion		Yoo, Youngdong			
16	Final exam		Yoo, Youngdong			

## 11. Other items of notification