Syllabus(2021-2)

Course Title	General Chemistry II	Course No.	20417-02
Department/ Major	Chemistry and Nanoscience	Credit/Hours	3.0
Class Time/ Classroom	Monday 09:30-10:45 & Thursday 11:00-12:15		
Instructor	Name Sun-Shin Cha	Department Chemistry and Nanoscience	
	E-mail: chajung@ewha.ac.kr	Telephone 02-3277-3858	
Office Hours/ Office Location	TBA/Sci Building A-412		

Ⅰ. Course Overview

1. Course Description

This course is the second semester of a two-semester first year introductory chemistry course (General Chemistry I and II). It introduces the fundamental principles underlying modern chemistry. A range of topics will be covered including chemical kinetics, chemical thermodynamics, acid-base chemistry, electrochemistry, and introduction to organic and biological molecules.

2. Prerequisites

3. Course Format

Lecture	Discussion/Presentation	Experiment/Practicum	Field Study	Other
80%	20%	%		%

(Instructor can change to match the actual format of the class.)

Explanation of course format:

4. Course Objectives

Understanding of basic concepts related to chemical kinetics, chemical thermodynamics, acid-base chemistry, electrochemistry, and organic and biological chemistry.

5. Evaluation System

Midterm Exam	Final Exam	Quizzes	Presentation	Projects	Assignments	Participation	Other
40%	40%	%	%	%	20%	%	%

(Instructor can change to match the actual format of the class.)

* Evaluation of group projects may include peer evaluations.

Explanation of evaluation system:

Two exams will be given: each exam counts 45 points towards the final grade. Partial credits will be given to solving processes even when you fail to get correct answers, but no credits will be given even to a correct answer if you don't describe solving processes. Attendance to the class counts 10 points. If you miss 6 classes or more, you will get 'F' grade by the university policy.

Ⅱ. Course Materials and Additional Readings

1. Required Materials

Chemistry, Zumdahl and Zumdahl, 9th or 10th Edition
(available at *Ewha Kyobo Bookstore*)

2. Supplementary Materials

If necessary, the professor who teaches this subject will hand out supplementary materials.

3. Optional Additional Readings

Ⅲ. Course Policies

* For laboratory courses, all students are required to complete lab safety training.

Ⅳ. Course Schedule (15 credit hours must be completed.)

Week	Date	Topics & Class Materials, Assignments	
Week 1	02 Sep	Topics & Class Format	Introduction & CH12. Chemical Kinetics
	06 Sep	Materials & Assignments	Text book
Week 2	09 Sep	Topics & Class Format	CH12. Chemical Kinetics /CH13. Chemical Equilibrium
	13 Sep	Materials & Assignments	Text book
Week 3	16 Sep	Topics & Class Format	CH13. Chemical Equilibrium
	23 Sep	Materials & Assignments	Text book
Week 4	27 Sep	Topics & Class Format	CH14. Acids and Bases
	30 Sep	Materials & Assignments	Text book
Week 5	07 Oct	Topics & Class Format	CH14. Acids and Bases
	14 Oct	Materials & Assignments	Text book
Week 6	18 Oct	Topics & Class Format	CH15. Acid-Base Equilibria
	21 Oct	Materials & Assignments	Text book
Week 7	25 Oct	Topics & Class Format	CH15. Acid-Base Equilibria/ CH16. Solubility and Complex Ion Equilibria
	28 Oct	Materials & Assignments	Text book
Week 8	30 Oct	Topics & Class Format	Mid-Term Exam
		Materials & Assignments	
Week 9	01 Nov	Topics & Class Format	CH17. Spontaneity, Entropy, and Free Energy
	04 Nov	Materials & Assignments	Text book
Week 10	08 Nov	Topics & Class Format	CH18. Electrochemistry
	11 Nov	Materials & Assignments	Text book
Week 11	15 Nov	Topics & Class Format	CH18. Electrochemistry
	18 Nov	Materials & Assignments	Text book
Week 12	22 Nov	Topics & Class Format	CH19. The Nucleus: A Chemist's View
	25 Nov	Materials & Assignments	Text book
Week 13	29 Nov	Topics & Class Format	CH20. The Representative Elements
	02 Dec	Materials & Assignments	Text book

Week	Date	Topics & Class Materials, Assignments	
Week 14	06 Dec	Topics & Class Format	CH21. Transition Metals and Coordination Chemistry
	09 Dec	Materials & Assignments	
Week 15	13 Dec	Topics & Class Format	CH22. Organic and Biological Molecules
	16 Dec	Materials & Assignments	Text book
Week 16	18 Dec	Topics & Class Format	Final Exam
		Materials & Assignments	
Makeup Classes 1	(mm/dd)		
Makeup Classes 2	(mm/dd)		

V. Special Accommodations

* According to the University regulation #57, students with disabilities can request special accommodation related to attendance, lectures, assignments, and/or tests by contacting the course professor at the beginning of semester. Based on the nature of the students' requests, students can receive support for such accommodations from the course professor and/or from the Support Center for Students with Disabilities (SCSD).

* The contents of this syllabus are not final—they may be updated.