

2025 Spring Semester

Syllabus for General Chemistry I-Chemistry Around Us

1. **Course:** **General Chemistry I (CH101)** [lecture: Experiment: Credit = 3:0:3]

2. Lecture Timetable

Time (Mondays and Wednesdays)	Class	Professor	Lecture Room(E11)
10:30~12:00	E	Yong Woong Jun	203

3. Summary of Lecture

- o This lecture highlights how chemistry is linked to everyday life, environmental concerns, and important societal issues, covering basic principles of chemistry in a way that shows their practical importance in the real world.
- o This lecture will focus on applying chemistry concepts to real-world scenarios. It might start with discussing the chemistry behind portable electronics, linking it to the periodic table. The lecture could then explore topics like air quality, solar radiation, climate change, and water resources, emphasizing their chemical aspects. It would also cover energy topics, like combustion and alternative energy sources, and delve into materials science with polymers and plastics. Additionally, it might touch on the chemistry of food, health, and genetics. This approach makes chemistry relevant and understandable for non-science majors

4. Material for Teaching:

- o Chemistry in Context, 10th ed, McGraw-Hill
- o Lecture materials will be provided through the KLMS website of each class (<https://klms.kaist.ac.kr/>).

5. General Guidelines

- 1) The grading system will be determined based on the total scores achieved by students. The distribution of A grades (including A+, A_o, and A-) will be less than 50% of the total class. A **C- grade** will correspond to a total score of approximately **50 points**. Students taking the course with a P/NR grading option must achieve a score higher than 50 points (equivalent to a C-).

2) **Oral Presentation:** During the week of the 13th and 14th, all students are required to deliver a brief oral presentation on contemporary issues in chemistry. Each presentation should be under 10 minutes in length, followed by a 3-minute Q&A session.

3) **Final Exam:** The final exam will require you to express your ideas on the topics covered in this lecture.

4) Grading Criteria and Points Distribution

I. Attendance: 10 points

- Maximum of 10 points (0.5 point for each attendance of lectures)
- This course does not penalize absences, so there is **no recognized attendance**.

II. Participation: 20 points

- Answer in Classum during the class.

III. Oral Presentation: 20 points

IV. Writing assignment: 20 points (Writing 10 pts + Evaluation 10 pts)

V. Final Exam: 30 points

VI. Plagiarism of any submitted materials: F grade

6. Waiver Examination

The waiver examination for General Chemistry I will be held at the beginning of the semester and is exclusively available to students who have not previously taken any General Chemistry I courses. The exam will assess general topics covered in General Chemistry.

7. Lecture Schedule (TBD)

Week	Chapters	Due date for Homework	Notes
1 st (2/24, 2/26)	Chp. 1 Portable Electronics		
2 nd (3/3, 3/5)	Chp. 2 Air		3/3 No class (Holiday)
3 rd (3/10, 3/12)	Chp 3. Radiation		
4 th (3/17, 3/19)	Chp 4. Climate Change		
5 th (3/24, 3/26)	Chp 5. Water is Everywhere		
6 th (3/31, 4/2)	Chp 7. Alternative Sources		
7 th (4/7, 4/9)	Chp 8. Energy Storage	Writing Due	
8 th	No Mid-term Exam		
9 th (4/21, 4/23)	Chp 9. Plastics	Evaluation Due	
10 th (4/28, 4/30)	Chp 10. Brewing and Chowing		
11 th (5/5, 5/7)	Chp 11. Nutrition		5/5 No class (Children's Day)
12 th (5/12, 5/14)	Chp. 13 Genes and Life		Presentation rehearsal w/ TA
13 th (5/19, 5/21)	Oral Presentation		Presentation rehearsal w/ TA
14 th (5/26, 5/28)	Oral Presentation		
15 th (6/2, 6/4)		Open for questions!	Make-up classes
16 th (6/11)	Final Exam		