

KIM 101E (2023-2024 Fall Term)

Program

WEEK	DATE	TOPICS
1	October 02-06, 2023	Matter and Its Properties, Atomic Theory
2	October 09-13, 2023	Electrons in Atoms, Periodic Table
3	October 16-20, 2023	Chemical Compounds, Chemical Reactions
4	October 23-27, 2023	Reactions in Aqueous Solutions
5	October 30-November 03, 2023	Gases
6	November 06 -10, 2023	Thermochemistry
7	November 13-17, 2023	Chemical Bonding-I
8	November 20-24, 2023	Chemical Bonding-II
9	November 27-December 01, 2023	Liquids, Solids and Intermolecular Forces
10	December 04-08, 2023	Liquids, Solids and Intermolecular Forces
11	December 11-15, 2023	Solutions and Their Physical Properties
12	December 18-22, 2023	Chemical Equilibrium
13	December 25-29, 2023	Acids and Bases
14	January 01-05, 2024	Spontaneous Change: Entropy and Gibbs Energy

Text Book

General Chemistry, Principles & Modern Applications, R. H. Petrucci, F. G. Herring, J. D. Madura, C Bissonnette, Pearson Canada, Inc., 2017, Eleventh Ed.

Supplementary Books: All General Chemistry Text Books

Exams

Midterm I	Midterm II	Final Exam
18 November 2023 (10:00-12:00)	24 December 2023 (10:00-12:00)	Date will be announced from sis.itu.du.tr
Topics: <ul style="list-style-type: none">• Matter and Its Properties, Atomic Theory• Electrons in Atoms, Periodic Table• Chemical Compounds, Chemical Reactions• Reactions in Aqueous Solutions• Gases	Topics: <ul style="list-style-type: none">• Thermochemistry• Chemical Bonding-I• Chemical Bonding-II• Liquids, Solids, and Intermolecular Forces• Solutions and Their Physical Properties	All chapters
Grading: 25%	25%	50%

Important Remarks

- All announcements and notes related to the course will be published on <https://kimya.itu.edu.tr> and the “Ninova” system. Students are supposed to check these websites regularly.
- Course success will consist of 25% midterm I, 25% midterm II, and 50% final exam.
- Students can attend only those classes for which they are officially enrolled.
- 70% attendance is required to pass this course. Students with 5 absences will be evaluated as VF.
- In the evaluation of exam grades;
 - Exams will be multiple-choice.
 - Exam grades will be calculated by subtracting **one-quarter of the number of incorrect answers** from the number of correct answers. If the exam grade is negative, the grade will be considered as zero.
- Students must bring their own calculators into their exams that they’re familiar with and that are in good working order. Calculators may not be shared.
- Students are not allowed to use mobile phones as calculators.
- Students will apply to the faculty they are affiliated with to object to exam results and take excuse exams. They must forward the official letter they receive from the faculty to the KIM 101 coordinator.
- A PDF file about Naming Chemical Compounds is available on the Chemistry Department website.