Identification	Subject	CHEM 112 General G	Chemistry	2-2 ECTS 6
	Department	Chemistry and Chemical Engineering		
	Program	Undergraduate		
	Term	Spring 2024		
	Instructor	Valida Fataliyeva		
	E-mail:	valide_eliyeva@outlo	ook.com	
	Classroom/hours			
	Office hours			
Prerequisites	General Chemistry-	1		
Language	English			
Compulsory/Elective	Compulsory			
Required textbooks	Recommended References:			
and course materials	Chemistry (5th edit	ion) written by Raymo	nd Chang	and Kenneth A. Goldsby
	in pdf published in	2008 [1]		·
	Supplementary mat	erial:		
	1. Chemistry The C	entral Science 14th Ed	ition in p	df published in 2017 [2]
	2. Class Lecture Ha	ndouts and Additional	Reading	Materials
Website of course	This course is based	l on traditional face-to-	-face clas	ses.
Teaching methods	Lecture X		X	
	Group	liscussion		X
	Practie	actical tasks		X
Evaluation	Methods	Date/deadli	nes	Percentage (%)
Evaluation	Methods Activity	Date/deadli Each lesso	nes on	Percentage (%) 5
Evaluation	Methods Activity Quiz	Date/deadli Each lesso 3 times during s	nes on semestr	Percentage (%) 5 15
Evaluation	Methods Activity Quiz Presentation	Date/deadli Each lesso 3 times during s Last week of se	nes on semestr mester	Percentage (%) 5 15 10
Evaluation	Methods Activity Quiz Presentation Participation	Date/deadli Each lesso 3 times during s Last week of se Each lesso	nes on semestr mester on	Percentage (%) 5 15 10 5
Evaluation	Methods Activity Quiz Presentation Participation Midterm Exam	Date/deadli Each lesso 3 times during s Last week of se Each lesso Mid of the ser	nes on semestr mester on mestr	Percentage (%) 5 15 10 5 30
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Evaluation Course outline	MethodsActivityQuizPresentationParticipationMidterm ExamFinal ExamTotalGeneral Chemistry advanced topics thermodynamics, el solubility equilibria The course aims to principles and their	Date/deadli Each lesso 3 times during s Last week of se Each lesso Mid of the ser End of seme 2 is a continuation of in the field. It typectrochemistry, acids a and various aspects deepen students' und applications in real-work	nes mester mester on mestr estr f General pically c and bases of organi erstanding prld scena	Percentage (%)5151053035100Chemistry-1 and explores overs concepts such as , acid-base equilibria and c and inorganic chemistry. g of fundamental chemical rrios.
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	• Study the principles of electrochemical cells, redox reactions, and their
	applications in various chemical processes.
	• Introduce basic organic chemistry concepts, including nomenclature,
I earning outcomes	Demonstrate a deep understanding of thermodynamic principles and
Learning outcomes	• Demonstrate a deep understanding of thermodynamic principles and their application to chemical system
	 Identify, classify, and manipulate acids and bases in various chemical
	contexts.
	• Understand electrochemical concepts, including redox reactions, and
	apply them to practical situations.
	Comprehend fundamental organic chemistry concepts, including
	nomenclature, functional groups, and reaction mechanisms.
Policy	• Activity
	Class activities play a crucial role in the overall learning experience and
	contribute to the development of students in various ways. Activity means
	responding to the teacher's questions, actively participating in solving
	on Activity is taken into account for each lesson and is evaluated with 5 points
	at the end of the semestr
	Parcipitation
	For a variety of reasons, participation in a classroom context is essential. It is
	essential to the learning process, promotes teamwork, and aids in the general
	success of both the individual students and the class as a whole. Parcipitation
	is valued at 5 points and 3 absences are worth 1 point.
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	• Quiz
	A consistent method of measuring your understanding of the content covered
	in class is through quizzes. They assist you and your teacher in evaluating your
	comprehension of important ideas and identifying any areas that can benefit
	from more explanation.
	The quizzes could be thought of as "preperation" for the exams Ouizzes will
	be held 3 times during the semester and will give a total of 15 points. Each
	auiz will take place during class and consist of approximately 5 points.
	conceptual multiple-choice true/false and short answer questions. You are
	allowed to use a calculator during quizzes, however books and notes are not
	normitted
	permitted.
	Presentation
	Presentation consists of students researching a topic and presenting it in the
	form of a power point presentation. The maximum score for the presentation
	is 10 points.
	• Midterm exam is important components of the academic assessment process
	and it serves several crucial purposes in a student's educational journey
	Midterm is hold in the middle of the semester and is evolveted with a total of
	20 points. The time limit of midtern even is 00 minute. The form to 6 th
	30 points. The time limit of midterm exam is 90 minutes. The format of the
	questions will vary, but expect a range of 'easy', 'medium' and
	changing parts, with the point values for each question/part clearly

labeled. During the exam, you are permitted to use a calculator (any model, provided that it has no communication ability; you also may not share calculators).

• Final Exam

Final Exam is held at the end of the semester and is evaluated with a total of 35 points. The time limit of midterm exam is 90 minutes. The format of the questions will vary, but expect a range of 'easy'', 'medium'' and ''challenging'' parts, with the point values for each question/part clearly labeled. During the exam, you are permitted to use a calculator (any model, provided that it has no communication ability; you also may not share calculators).

• Withdrawal (pass/fail)

The School of Engineering and Applied Science's grading guidelines are carefully adhered to throughout this course. In order to pass, a student must typically receive a mark of at least 60%.

• Cheating/plagiarism

Any form of plagiarism or cheating on a test, quiz, or project will result in the cancellation of the assignment. In this scenario, the student will receive a score of zero (zero) without any further consideration.

• Professional behavior guidelines

During class hours, students are expected to conduct themselves in a way that fosters a positive academic and professional atmosphere. Discussions without permission and unethical conduct are absolutely forbidden.

Ethics

In class, students shouldn't be late. During class, all electronic devices must be put away and turned off.

	Tentative Schedule	
Weeks	Topics	Reference books
1	 Energy Relationships in Chemical Reactions 6.1 The Nature of Energy and Types of Energy 172 6.2 Energy Changes in Chemical Reactions 173 6.3 Introduction to Thermodynamics 174 6.4 Enthalpy of Chemical Reactions 180 6.5 Calorimetry 185 6.6 Standard Enthalpy of Formation and Reaction 	[1] Page 172-191
2	Chemical Bonding II: Molecular Geometry and Hybridization of Atomic Orbitals 312 10.1 Molecular Geometry 313 10.2 Dipole Moments 322 10.3 Valence Bond Theory 325	[1] Page 312-325
3	 10.4 Hybridization of Atomic Orbitals 328 10.5 Hybridization in Molecules Containing Double and Triple Bonds 337 10.6 Molecular Orbital Theory 340 	[1] Page 328-340
4	Quiz 1 (During Class Time)	
5	Introduction to Organic Chemistry 355 11.1 Classes of Organic Compounds 356 11.2 Aliphatic Hydrocarbons 356 11.3 Aromatic Hydrocarbons 370 11.4 Chemistry of the Functional Groups 374 11.5 Chirality—The Handedness of Molecules 381	[1] Page 355-381
6	Intermolecular Forces and Liquids and Solids 390 12.1 The Kinetic Molecular Theory of Liquids and Solids 391 12.2 Intermolecular Forces 392 12.3 Properties of Liquids 398 12.4 Crystal Structure 401 12.5 Bonding in Solids 405	[1] Page 390-405
7	Mid Exam	

	Acids and Bases 529 (part 2)	[1] Page 536-565
8	16.4 Strength of Acids and Bases 536	
	16.5 Weak Acids and Acid Ionization	
	Constants 540	
	16.6 Weak Bases and Base Ionization	
	Constants 551	
	16.7 The Relationship Between Conjugate Acid-Base	
	Ionization Constants 553	
	16.8 Molecular Structure and the Strength	
	of Acids 554	
	16.9 Acid-Base Properties of Salts 557	
	16.10 Acidic, Basic, and Amphoteric Oxides 563	
	16 11 Lewis Acids and Bases 565	
	Acid-Base Equilibria and	[1] Page 574-586
9	Solubility Equilibria 574	
	17 1 Homogeneous Versus Heterogeneous	
	Solution Equilibria 575	
	17.2 Buffer Solutions 575	
	17.2 Durlet Solutions 375	
	17.5 A Closer Look at Acid-Dase Titrations 500	
	17.5 Solubility Fauilibria 589	[1] Page 589-600
10	17.5 Solubility Equilibria 509	[1] 1 age 507 000
	17.0 The Common for Effect and Solubility 590	
	17.8 Application of the Solubility Product Principle	
	to Qualitative Analysis 600	
11	Quiz 2 (During Class Time)	
11	Quiz 2 (During Class Time) Thermodynamics 610	[1] Page 610-632
11	Quiz 2 (During Class Time) Thermodynamics 610 18.1 The Three Laws of Thermodynamics 611	[1] Page 610-632
11	Quiz 2 (During Class Time)Thermodynamics 61018.1 The Three Laws of Thermodynamics 61118.2 Spontaneous Processes 611	[1] Page 610-632
11	Quiz 2 (During Class Time)Thermodynamics 61018.1 The Three Laws of Thermodynamics 61118.2 Spontaneous Processes 61118.3 Entropy 612	[1] Page 610-632
11	Quiz 2 (During Class Time)Thermodynamics 61018.1 The Three Laws of Thermodynamics 61118.2 Spontaneous Processes 61118.3 Entropy 61218.4 The Second Law of Thermodynamics 617	[1] Page 610-632
11	Quiz 2 (During Class Time)Thermodynamics 61018.1 The Three Laws of Thermodynamics 61118.2 Spontaneous Processes 61118.3 Entropy 61218.4 The Second Law of Thermodynamics 61718.5 Gibbs Free Energy 622	[1] Page 610-632
11	Quiz 2 (During Class Time)Thermodynamics 61018.1 The Three Laws of Thermodynamics 61118.2 Spontaneous Processes 61118.3 Entropy 61218.4 The Second Law of Thermodynamics 61718.5 Gibbs Free Energy 62218.6 Free Energy and Chemical Equilibrium 629	[1] Page 610-632
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