

## NEAR EAST UNIVERSITY - COMMON COURSES COORDINATION UNIT



Department of Chemistry  
Course Information Sheet & Course Outline  
2021-2022 Fall Semester

<b>Course Code</b> CHM101	<b>Course Name</b> GENERAL CHEMISTRY		<b>Credit</b> 4	<b>ECTS</b> 5			
<b>Pre-requisite:</b> None							
<b>Language:</b> English		<b>Course Type:</b> Compulsory		<b>Year:</b> 2021-2022		<b>Semester:</b> Fall	
<b>Weekly Hours</b>	<b>Class Hours</b>		<b>Laboratory</b>	<b>Practicum</b>	<b>Learning Sessions</b>		
	3		2	0	<b>PS</b> 0	<b>C</b> 2	<b>R</b> 2
<b>Course Lecturer/ Coordinator</b>	Dr. Chidi Wilson NWEKWO/ Assist. Prof. Dr. Süleyman AŞIR			Office Hours: Mon-11am, Tue-12pm Thur-12pm Fri-12pm			
	<b>E-mail address</b>	Chidiwilson.nwekwo@neu.edu.tr		Online Office Hour Link: Wed - 12pm to 1pm <a href="https://meet.google.com/ssv-qnp-h-zh">https://meet.google.com/ssv-qnp-h-zh</a>			
<b>Learning Outcomes</b>	<p>After the completion of this course, the student will be able to</p> <ul style="list-style-type: none"> <li>▶ Know and properly use the language of chemistry (nomenclature, terminology, and symbolic representations)</li> <li>▶ Comprehend and be able to apply chemical facts, concepts, and models.</li> <li>▶ Succeed in qualitative and quantitative problem solving skills.</li> <li>▶ Think critically about the mutual impacts of science, society, natural resources, and the environment.</li> </ul>						
<b>Course Description</b>	This course is designed as a one-semester course for freshman engineering students.						
<b>Course Objectives</b>	<p>Students who successfully complete this course will be able to:</p> <ol style="list-style-type: none"> <li>1. Develop fundamental principles of theoretical and applied chemistry</li> <li>2. Develop scientific inquiry, complexity, critical thinking, mathematical and quantitative reasoning.</li> <li>3. Explain phenomena observed in the natural world.</li> <li>4. Develop basic laboratory skills.</li> </ol>						
<b>Textbooks and/or References</b>	1	Chemistry Principles and Reactions (7th edition, 2012) by William L. Masterton and Cecile N. Hurley, Brooks/Cole Cengage Learning (Lecture notes)					
	2	CHM101 Lab Manual					
	3	Cengage Learning Centre, UZEM System, and non-virtual alternative assessment tools					
<b>Course Content</b>	Matter and measurement; atoms, molecules and ions; mass relations in chemistry, stoichiometry; gases; electronic structure and the periodic table; covalent bonding						
<b>Methods and Techniques Used in the Course</b>		<ul style="list-style-type: none"> <li>• The traditional (face-to-face) learning majorly and an interactive E-learning method</li> <li>• Using the MindTap package On the Cengage Learning platform</li> </ul>					
<b>WEEKLY OUTLINE</b>							
<b>Week</b>	<b>Date</b>	<b>Topic</b>		<b>Activities</b>			<b>Reference</b>
1	20-24 Sep	<b>Introduction to the Course</b>					
2	27 Sep-1 Oct	Matter and Measurements		Face to face class			1,3
3	4-8 Oct	Matter and Measurements		Face to face class			1,3
4	11-15 Oct	Atoms, Molecules and Ions		Face to face class with Quiz 1			1,3
5	18-22 Oct	Atoms, Molecules and Ions		Face to face class			1,3
6	25-29 Oct	Mass Relations in Chemistry; Stoichiometry		Face to face class with Quiz 2			1,2,3
7	1-5 Nov	Mass Relations in Chemistry; Stoichiometry		Face to face class			1,3
8	8-13 Nov	<b>Midterm Exam Week</b>					
9	15-19 Nov	Gases		Face to face class with Quiz 3			1,2,3
10	22-26 Nov	Gases		Face to face class			1,3
11	29Nov-3Dec	Electronic Structure and the Periodic Table		Face to face class with Quiz 4			1,3
12	6-10 Dec	Electronic Structure and the Periodic Table		Face to face class			1,2,3
13	13-17 Dec	Covalent Bonding		Face to face class with Quiz 5			1,3
14	20-24 Dec	Covalent Bonding		Face to face class			1,3
15	27-31 Dec	Revision Lecture		Face to face class with Quiz 6			1,3
16	3-13 Dec	<b>Final Exam Week</b>					
<b>Attendance:</b> Minimum 70 %							
<b>Assessment Breakdown</b>	<b>Type</b>			<b>%</b>	<b>Reference/ Source</b>	<b>Relevant Competencies</b>	
	1	Lab		10	2		
	2	6 Quizzes (Midterm)		40	3		
	3	Final		50	-		
	4						
5							

Learning Program					
Educational Tool	Amount	Student Work Load (Hours)	Educational Tool	Amount	Student Work Load(Hours)
Course Duration	14	14*3=39			
Study Hours	14	14*3=39			
Lab	3	3*1=3			
Quizz(es)	6	6*2=12			
Preparation for quizz(es)	6	6*6=36			
Final exam	1	1*2=2			
Final exam (Study hours)	1	1*12=12			
			<b>Total</b>		143
			<b>Recommended ECTS Credit (Total Hours / 30):</b>		<b>143/30 = ~ 5</b>