General chemistry Course Description

1. Course Name:	
General chemistry	
2. Course Code:	
3. Semester / Year:	
First semester/ First year 2026-2025	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 hours / 3 units	
7. Course administrator's name (mention all, if more than one name)	
Name:Asst. Lect. Zahraa Emad Hussein **Email: zahraa_e.hussein@alzahraa.edu.iq**	
8. Course Objectives	
Course Objectives	● **Knowing how to distinguish between active groups in terms of properties, preparation, and most important reactions** ● **Knowing and understanding the types of alcohol** ● **Knowing and understanding the most important reactions** ● **Knowing and understanding the most important methods of preparation** ● **Knowing and understanding how to compare aldehydes and ketones**

9. Teaching and Learning Strategies	
Strategy	• Daily quizzes • Activities in the classroom

10. Course Structure					
Week	Hours	Required learning outcomes	Unit or subject name	Learning method	Evaluation method
1st	5	Preparation, installation	Molecular structure of the atom	Theoretical, practical	Discussion, Exams
2nd	5	Preparation, installation	Quantitative analysis methods	Theoretical, practical	Discussion, Exams
3rd	5	Preparation, installation	Molar concentrations	Theoretical, practical	Discussion, Exams
4th	5	Preparation, installation	Camical bond	Theoretical, practical	Discussion, Exams
5th	5	Preparation, installation	Hydrocarbon	Theoretical, practical	Discussion, Exams
6th	5	Preparation, installation	Alkenes	Theoretical, practical	Discussion, Exams
7th	5	Preparation, installation	Alkanes	Theoretical, practical	Discussion, Exams
8th	5	Preparation, installation	Alkynes	Theoretical, practical	Discussion, Exams

9th	**5**	**Preparation, installation**	**Alcohols**	**Theoretical, practical**	**Discussion, Exams**
10th	**5**	**Preparation, installation**	**Aldehydes and ketones**	**Theoretical, practical**	**Discussion, Exams**
11th	**5**	**Preparation, installation**	**Carboxylic acids**	**Theoretical, practical**	**Discussion, Exams**
12th	**5**	**Preparation, installation**	**Amines**	**Theoretical, practical**	**Discussion, Exams**
13th	**5**	**Preparation, installation**	**Aromatic compounds**	**Theoretical, practical**	**Discussion, Exams**
14th	**5**	**Preparation, installation**	**Sugars**	**Theoretical, practical**	**Discussion, Exams**
15th	**5**	**Preparation, installation**	**Halogen compound**	**Theoretical, practical**	**Discussion, Exams**

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**Principles of General Chemistry, Morrison and Boyd Organic Chemistry, Harper's Biochemistry (Lectures)**
Main references (sources)	1. ***Solutions for General Chemistry: Principles and Modern Applications* 11th Ralph H. Petrucci, F. Geoffrey Herring, Jeffry D. Madura, Carey Bissonnette** 2. ***Solutions for CHEMISTRY: The Molecular Nature of Matter and Change* 7th Martin S. Silberberg, Patricia G. Amateis**

Recommended books and references (scientific journals, reports...)	**Scientific journals from the Internet, reports, and scientific** **research from the Internet**
Electronic References, Websites	**Scientific journals from the Internet, reports, and scientific research from the Internet**