

Course Description Form

1. Course Name: General Chemistry	
2. Course Code: CHEM271	
3. Semester / Year: 2023-2024	
4. Description Preparation Date: 21/3/2024	
5. Available Attendance Forms: Class Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total) 30 hr	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist. Prof. Dr. Atheel Hassan Kadhim Email: atheel.alwash@nahrain.univ.edu.iq	
8. Course Objectives	
Course Objectives	<ol style="list-style-type: none">1. Develop and understand the uses of analytical chemistry.2. Understanding the role of chemistry in quantitative analysis3. The ability to understand the chemical methods used4. Understanding of occupational safety responsibilities that must be followed• 5. Understand some basics of organic chemistry such as • Structure and properties of alcohols, alkane alkanes.... <p>....</p>
9. Teaching and Learning Strategies	
Strategy	<ol style="list-style-type: none">1 - Introduction to the main definitions of atom2- Understanding the concentration expression3- Understanding the principles of calibration4- A general introduction to acid and base5. Understand the chemical equilibrium reaction6- The basics of the gravimetric method7- Introduction to the basics of organic chemistry

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduce students to the basic concepts of pollution	Structure of atoms	White board to insure the student interaction	Oral and written exams
2	2	Introduce students to the basic concepts of pollution	Molarity, Molality expression	White board to insure the student interaction	Oral and written exams
3	2	Introduce students to the basic concepts of pollution	Normality expression	White board to insure the student interaction	Oral and written exams
4	2	Introduce students to the basic concepts of pollution	Tutorial	White board to insure the student interaction	Oral and written exams
5	2	Introduce students to the basic concepts of pollution	Acid and bases, pH	White board to insure the student interaction	Oral and written exams
6	2	Introduce students to the basic concepts of pollution	Mid exam	White board to insure the student interaction	Oral and written exams
7	2	Introduce students to the basic concepts of pollution	Titration	White board to insure the student interaction	Oral and written exams
8	2	Introduce students to the basic concepts of pollution	Chemical equilibrium	White board to insure the student interaction	Oral and written exams
9	2	Introduce students to the basic concepts of pollution	Factors effecting chemical equilibrium	White board to insure the student interaction	Oral and written exams
10	2	Introduce students to the basic concepts of pollution	Tutorial	White board to insure the student interaction	Oral and written exams
11	2	Introduce students to the basic concepts of pollution	Mid Exam	White board to insure the student interaction	Oral and written exams

12	2	Introduce students to the basic concepts of pollution	Gravimetric method	White board to insure the student interaction	Oral and written exams
13	2	Introduce students to the basic concepts of pollution	Gravimetric method	White board to insure the student interaction	Oral and written exams
14	2	Introduce students to the basic concepts of pollution	Open discussion preparing for final test	White board to insure the student interaction	Oral and written exams
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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

50 Score of the mid exams

25 Score for quizzes

15 interaction within the class

10 for home works

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Fundamental of analytical chemistry D.A. Skoog, D. M. West, F. J. Holler and S. R. Crouch, 8th edition 2004, Brooks/Cole.
Main references (sources)	Chemistry A First course, Jacqueline Kroschwitz, Second Edition
Recommended books and references (scientific journals, reports...)	Fundamentals of chemistry: Fourth Edition, David E. Goldberg
Electronic References, Websites	Different sources from internet

