

Course Syllabus

1	Course title	General Chemistry Laboratory	
2	Course number	0303106	
3	Credit hours	2	
	Contact hours (theory, practical)	1, 3	
4	Prerequisites/corequisites	0303102	
5	Program title	BSc. In Chemistry	
6	Program code	0303	
7	Awarding institution	Science	
8	School	Science	
9	Department	Chemistry	
10	Course level	Second Year	
11	Year of study and semester (s)	Fall 2023/2024	
12	Other department (s) involved in teaching the course	N/A	
13	Main teaching language	English	
14	Delivery method	<input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	Online platforms(s)	<input type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date	8/10/2023	

17 Course Coordinator:

Name: Deeb Taher

Contact hours: 12.30-16.30 (Sum)

Office number:

Phone number: 21165

Email: d.taher@ju.edu.jo

**18 Other instructors:**

Name: Murad Abbas AlDamien

Office number:

Phone number: 22146

Email: maldamen@ju.edu.jo

Contact hours: 12.00-16.00 (Mon)

Name: Mohammad Gharaibeh

Office number:

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Contact hours: 12.30-16.30 (Tue)

19 Course Description:

As stated in the approved study plan.



20 Course aims and outcomes:

A- Aims:

This course covers the qualitative and quantitative aspects of scientific measurement, the nature of matter, gases, liquids and solids, energy, chemical bonding, molecular structure and properties, stoichiometry, thermochemistry, and solutions

B- Students Learning Outcomes (SLOs):

CLO-1. Handle laboratory glassware, equipment, chemicals, and generated waste using guidelines and basic knowledge about the hazards.

CLO-2. Perform laboratory experiments correctly using appropriate techniques and safety procedures.

CLO-3. Perform common laboratory techniques including acid/base titrations, UV/Visible spectroscopy, calorimetry.

Upon successful completion of this course, students will be able to:

0303106 General Chemistry Laboratory		Student Outcomes (SO)						
		SO-1	SO-2	SO-3	SO-4	SO-5	SO-6	SO-7
Course Learning Outcomes (CLO)	CLO-1	✓						
	CLO-2	✓	✓					
	CLO-3	✓		✓				

21. Topic Outline and Schedule:

Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1	Check-In						
2	2	(Safety Rules and Laboratory + Techniques and Measurements	CLO-1 + CLO-2	Face to Face	Power point		Quizzes + Exam	Laboratory Manual for General Chemistry
3	3	Stoichiometry: Empirical	CLO-1 + CLO-2	Face to Face	Power point		Quizzes + Exam	Laboratory Manual

		Formula						for General Chemist ry
4	4	Limiting Reactant	CLO-1 + CLO-2	Face to Face	Power point		Quizzes + Exam	Laborat ory Manual for General Chemist ry
5	5	Volumetric Analysis: Acid-Base Titration	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laborat ory Manual for General Chemist ry
6	6	Bleach Analysis	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laborat ory Manual for General Chemist ry
7	7	Molar Mass of a Volatile Liquid	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laborat ory Manual for General Chemist ry
8	8	Thermochemis try and Hess's Law	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laborat ory Manual for General Chemist ry

9	9	Colligative Properties	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laboratory Manual for General Chemistry
10	10	Rates of Chemical Reactions	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laboratory Manual for General Chemistry
11	11	Determination of Chemical Equilibrium	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laboratory Manual for General Chemistry
12	12	Solubility Product Constant and Common Ion Effect	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laboratory Manual for General Chemistry
13	13	Electrochemistry	CLO-1 + CLO-2+ CLO-3	Face to Face	Power point		Quizzes + Exam	Laboratory Manual for General Chemistry
14	14	Check-out						
15	15	Final Exam	CLO-1 + CLO-2+ CLO-3	Face to Face			Exam	



22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Quizzes	20	All	All	Every week	Face to Face
Reports	10	All	All	Every week	Face to Face
Evaluation	10	All	All	Every week	Face to Face
Mid	20	All	All	8	Face to Face
Final	40	All	All	16	Face to Face

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc): N/A

24 Course Policies:

A- Attendance policies:

Attendance is taken each class.

Six unexcused absences will result an “F” grade.

B- Absences from exams and submitting assignments on time:

The highest four marks from all the quizzes will be considered. No make-up exams will be held for the quizzes, regardless of the excuse.

Course Coordinator will take care for student whom absent for the midterm exam.

Dean Office will take care for student whom absent for the final exam.

C- Health and safety procedures:

N/A

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Students are expected to adhere to the standards of academic honesty. Collaboration and discussion are encouraged, cheating of any kind is not tolerated.

E- Grading policy:

F- Available university services that support achievement in the course:



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25 References:

<p>A- Required book(s), assigned reading and audio-visuals:</p> <p>Inorganic Chemistry 4th Edition by Catherine Housecroft (Author), Alan Sharpe (Author)</p> <p>B- Recommended books, materials, and media:</p>
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26 Additional information:

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Name of Course Coordinator: Deeb Taher	Signature: -----	Date: 8/10/2023
Head of Curriculum Committee/Department: Deeb Taher	Signature: -----	
Head of Department: Firas Awwadi	Signature: -----	
Head of Curriculum Committee/Faculty: -----	Signature: -----	
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Dean: -----	Signature: -----	