



**University of Mosul
College of Science
Chemistry Department**



**Program Catalogue
2024-2023**

First Cycle – Bachelor's degree (B.Sc.) – Chemistry





University of Mosul College of Science Chemistry Department



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1. **About the Department**

The College of Science now houses the Department of Chemistry. The department has a four-year study duration. After the student has finished a systematic scientific preparation that qualifies him or her to keep up with technical advancement in the field of scientific research and to provide service to the public and private sectors, such as the ministry of health, the department awards a bachelor's degree in general chemistry. Students can exhibit the following chemical understanding, knowledge, and abilities with this program: Knowledge and comprehension, educational techniques, and Lectures, tutorials, book-guided reading sessions, conferences and workshops where participants may engage in scientific debate, interactive teaching sessions, practical lessons, and long-term projects are just a few of the learning and teaching methods employed. Additionally, the Department of Chemistry provides labs for atomic absorption, F. T. I. R., and UV-Vis that might help PhD and MSc students identify their compounds.



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The department grants the following degrees:

❖ Bachelor's Degree:

Each period of the bachelor's degree consists of two semesters, therefore for a student to graduate, they must have successfully completed eight semesters. A BSc in general chemistry is offered by the Department of Chemistry.

❖ Master's Degree:

Includes two stages, the first of which is the preparatory year, which is divided into two semesters (two courses). In the first semester, fundamental courses are offered, including analytical chemistry, biochemistry, physical chemistry, organic chemistry, and inorganic chemistry, while the second semester offers specialized courses in specialized fields, along with some elective courses. The second stage entails carrying out scientific research, whether on the theoretical or practical side, and lasts for a period of one calendar year. The student then defends his or her research work (thesis) before a committee of experts in order to be awarded a higher degree that entitles him or her to practice his or her work in that specialization.

❖ PhD Degree:

There are two steps to it. The PhD preparation stage is divided into two semesters, with the first semester consisting of basic courses (such as analytical chemistry, biochemistry, physical chemistry, organic chemistry, and inorganic chemistry), and the second semester consisting of specialized courses in specialized fields with some optional courses. To advance to the second stage, which involves a practical component as well as fulfilling scientific research requirements and spending at least two years, students must pass the comprehensive test after the second semester ends. The student submits his theses for the final viva after the thesis is finished.



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2. **Mission & Vision Statement**

The goal of the Department of Chemistry is to lead the field of chemistry toward a sustainable future by concentrating on key areas of fundamental research. These include researching and designing novel materials and chemical processes. In addition to being exceptional designers in the fields of science and technology, our students will also be model citizens who exhibit discipline and good behavior. Our aim is to create well-rounded thinkers and compassionate people who can produce a powerful and advanced country.

Vision Statement

We need dedicated teachers who employ efficient teaching techniques if we're going to realize the objective. to disseminate modern technological knowledge and education. to mold our young kids into morally and professionally upright adults. to raise productivity and value-based living standards through an ethical and rational strategy. The goal of the Department of Chemistry is to lead the field of chemistry toward a sustainable future by concentrating on key areas of fundamental research. These include researching and designing novel materials and chemical processes. Additionally, by integrating teaching, research, and growth across the curriculum, we want to change the student experience.

Mission Statement

One of the main goals of the college was to qualify students academically and scientifically in a way that is fully consistent with the requirements of scientific progress regarding basic sciences, which represent the fundamental knowledge of the universe.



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The chemistry department's mission is to prepare students professionally and scientifically through a scientific program that focuses on the student's need for education and tools.

The Chemistry Department, which is trying to enhance human health, opens the path for research into possible cures. Advancements in diagnosis and mechanism of action are made possible by the development of innovative instruments for investigation and diagnosis.

3. Program Specification

Program code:	BSc-Che	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

4. Educational and Program Goals

1. Offer chemistry majors' current curriculum in each of the five major sub-disciplines of chemistry: organic, inorganic, physical, analytical, and biochemistry to give them a solid foundation in each field.
2. Give biochemistry majors a solid foundation in organic, analytical, and biochemistry while placing an emphasis on the intersection of chemistry and biology.
3. Give students hands-on lab and research experiences that are pertinent to their studies of chemistry while also instructing them in safe, ethical laboratory procedures.
4. Give students the chance to learn about the chemical industries, careers, and daily duties of working chemists and biochemists.



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5. By highlighting the interdisciplinary character of chemistry and utilizing concrete examples to highlight links between it and other scientific disciplines, you may give pupils a more comprehensive understanding of the subject.

5. Program Objectives

1. Expose the learner to chemistry's key subfields.
2. Aiding in the understanding of chemical principles by students.
3. Give students an excellent basis for a rewarding career in chemistry.
4. Help you to build analytical, quantitative, and critical thinking abilities in chemistry.
5. Enable students to gain knowledge and laboratory skills by having them work in the lab with a variety of chemical processes.
6. Increase the student's ability to self-study.
7. Assist students in gaining a greater understanding of the theories underpinning the concepts of chemistry.
8. Scientists with advanced degrees who can oversee industrial projects.
9. Graduates with the scientific expertise to run universities and research institutions both scientifically and administratively.

6. Student Learning Outcomes

The Department of Chemistry has been trying to develop professional and educational staffs for the many state directorates, particularly the medical, agricultural, and industrial ones. These staffs are specialized in chemistry and scientific research. The department at the College of Sciences is striving to prepare the students intellectually and scientifically to fully cope with the modernized technology, which is perhaps one of the



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department's most essential goals. The department is eager to help students improve their research techniques and acquaint them with software and technology while they do their studies.

By the end of this program students will be able to:

1. Show that you are familiar with the core ideas behind the various fields of chemistry, such as organic, inorganic, physical, analytical, petrochemistry, and biochemistry.
2. Demonstrate knowledge of certain chemical subjects at the cutting edge of research.
3. Recognize the ideas that underpin the actual chemistry experiments and data.

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8. Credits, Grading and GPA

Credits

College of Science, Mosul University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

Group	Grade	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group	FX – Fail	(45-49)	More work required but credit awarded



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(0 – 49)	F – Fail	(0-44)	Considerable amount of work required
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Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [(1\text{st module score} \times \text{ECTS}) + (2\text{nd module score} \times \text{ECTS}) + \dots] / 24$$

9. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE1101	Fundamentals of Analytical Chemistry and Qualitative Analysis	109	66	7.00	C	
CHE1102	Fundamentals of inorganic chemistry	79	71	6.00	C	
CHE1103	Physics	109	66	7.00	S	
UoM104	Democracy and Human Rights	34	16	2.00	B	
CHE1104	Chemical Security and Safety	79	71	6.00	C	
UoM101	Arabic Language	34	16	2.00	B	



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Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE1215	Volumetric Analytical Chemistry	109	91	8.00	C	CHE1101
CHE1216	Ionic Compounds and Periodic table	109	91	8.00	C	CHE1102
Sci-101	Mathematics	34	16	2.00	B	
CHE1207	Geology	94	81	7.00	S	
UOM103	Computer	49	26	3.00	B	
UoM102	English Language	34	16	2.00	B	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE2308	Gravimetric Analysis Chemistry	94	56	6.00	C	
CHE2309	Chemistry of Representative Elements	94	56	6.00	C	
CHE23010	Thermodynamics	94	56	6.00	C	
CHE23011	Organic Chemistry 1	109	66	7.00	C	
CHE23012	Mathematics and Statistics	49	26	3.00	S	
UOM201	Baath Party crimes in Iraq	34	16	2.00	B	



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Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE24013	Classical Separation Methods	79	71	6.00	C	
CHE24014	Solid State Chemistry	94	56	6.00	C	
CHE24015	Phase equilibrium	94	56	6.00	C	
CHE24016	Organic Chemistry 2	94	56	6.00	C	
CHE24017	Nanochemistry	34	41	3.00	C	
CHE24018	Chemistry Software	49	26	3.00	C	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE35019	Coordination Chemistry 1	94	56	6.00	C	
CHE35020	Chemical Kinetics	94	56	6.00	C	
CHE35021	Organic Chemistry 3	94	56	6.00	C	
CHE35022	Principles of Biochemistry	94	56	6.00	C	
CHE35023	Industrial Chemistry and Pollution	49	51	4.00	C	
CHE35024	Elective 1(Heterocyclic -colloids - cytology)	19	31	2.00	E	



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Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE36025	Coordination Chemistry 2	4	79	6.00	C	
CHE36026	Electrochemistry and Surface chemistry	4	109	6.00	C	
CHE36027	Organic Chemistry 4	4	94	6.00	C	
CHE36028	Biomolecules	4	94	6.00	C	
CHE36029	Application of Industrial Chemistry	4	49	4.00	C	
CHE36030	Scientific Research Methodology	4	19	2.00	C	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE47031	Instrumental Analysis	94	56	6.00	C	
CHE47032	Identification of Organic Compounds	79	71	6.00	C	
CHE47033	Metabolism of Carbohydrates	94	56	6.00	C	
CHE47034	Petroleum Chemistry and Petrochemicals	94	56	6.00	C	
CHE47035	Quantum Chemistry	64	36	4.00	C	
CHE47036	Elective 2(Reaction mechanics - clinical chemistry)	19	31	2.00	E	



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Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
CHE48037	Chromatographic Methods	4	94	6.00	C	
CHE48038	Application of Organic Spectrum	4	79	6.00	C	
CHE48039	Metabolism of Lipids and proteins	4	79	6.00	C	
CHE48040	Polymers: Fundamentals and applications	4	94	6.00	C	
CHE48041	Spectroscopy	4	64	4.00	C	
CHE48042	Research Project	3	33	2.00	C	

10. Contact

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