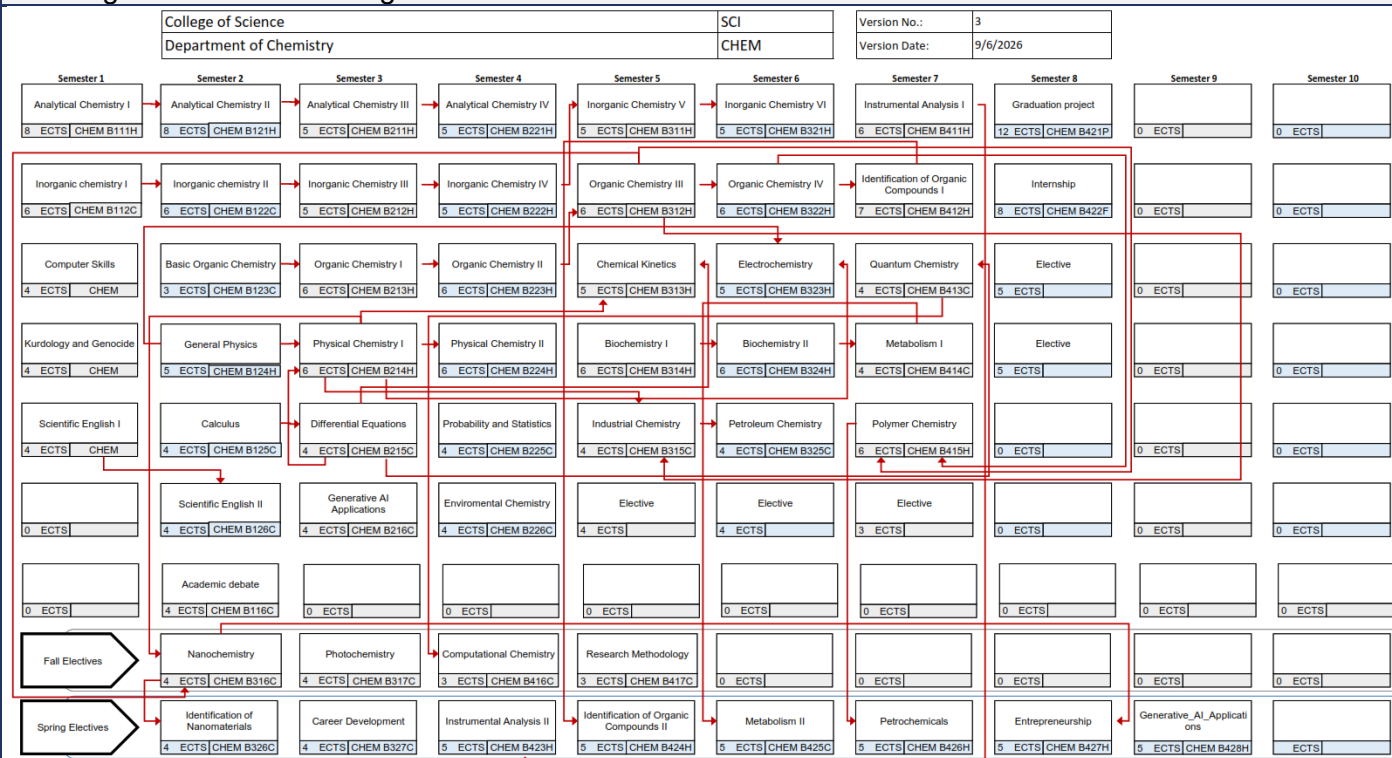


Programme Catalogue

College Name	College Abbreviation
Science	SCI
Department Name (in English)	Department Abbreviation
Chemistry	CHEM
Department Name (in Kurdish)	
کیمیا	
Department Name (in Arabic)	
الكيمياء	
1. Qualification awarded	
Bachelor of Science in Chemistry	
2. Length of programme	
8 Semesters Divided to 4 Years	
3. Number of credits	
240 ECTS credits	
4. Level of qualification according to the National Qualification Framework and the European Qualifications Framework	
Level 6	
5. Field(s) of study (e.g. ISCED-F)	
0521	
6. Specific admission requirements (if applicable)	
High school diploma in science stream; (average according to the decision of the mhe)	
7. Specific arrangements for recognition of prior learning (formal, non-formal and informal) (if applicable)	
8. Qualification requirements and regulations, including graduation requirements	
Students should successfully complete all the core courses and collect 240 ECTS credits	
9. Profile of the programme	
[Include a brief description of the main focus of the programme]	
10. Programme Educational Objectives	
➤ Providing a Strong Scientific Foundation: equip students with a fundamental understanding of chemical principles in all major branches of chemistry including analytical, biochemistry, inorganic, Industrial, organic, and physical chemistry. ➤ Develop Practical Laboratory Skills: ensure students gain hands-on experience through structured laboratory sessions, instrumental analysis, and internships. ➤ Fostering Critical Thinking and Problem-Solving Skills: emphasize the development of analytical and cognitive skills, enabling students to apply chemical knowledge to solve real-world problems. ➤ Prepare for Professional and Academic Careers: enhance the team work and enable graduates to pursue careers in chemical industries, research institutions, education, or advanced studies.	
11. Programme learning outcomes	
➤ Develop a strong understanding of fundamental chemical principles and theories in all chemistry sub-disciplines. ➤ The ability to work and collaborate effectively in teams in both classroom and laboratory. ➤ The ability to employ critical thinking and efficient problem-solving skills. ➤ Emphasize the cultivation of analytical skills, enabling students to design experiments, interpret data, and draw meaningful conclusions. ➤ Conduct experiments safely and effectively, and interpret chemical experiments using modern laboratory techniques and instrumentation. ➤ The ability to apply calculus, statistics, and computational tools to solve chemical problems and analyze data effectively. ➤ Conduct independent research projects, including a graduation project, and demonstrate readiness for lifelong learning and innovation in both education and the job market.	

12. Programme structure diagram with credits



13. Mode of Study

Full time

14. Examination regulations and grading scale

The following grading scale is used:

% Points	Grade
90 – 100	Excellent
80 - < 90	Very Good
70 - < 80	Good
60 - < 70	Medium
50 - < 60	Pass
0 - < 50	Fail

15. Mobility window (if applicable)

Not applicable.

16. Work placement(s)/internships (if applicable)

The programme includes an 8 ECTS internship opportunity in semester 8

17. Work-based learning (if applicable)

Internship

18. Programme director or equivalent

Dr. Soleen Saeed Ahmed

email: soleen.s.ahmed@uod.ac

19. Occupational profiles of graduates

Graduates of the Chemistry program are qualified to work in various scientific and industrial sectors, including positions as laboratory chemists, analytical chemists, quality control and quality assurance specialists, research assistants, laboratory technicians, environmental analysts, and the chemical industry.

20. Access to further studies

Graduates can apply for admission to higher diploma and 2nd cycle (Master) studies in related disciplines.

21. Academic Staff

Full Name	Qualification	Academic title	Email
Soleen Saeed Ahmed	PhD	Assist. Prof.	soleen.s.ahmed@uod.ac
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Nabeel Obaid Hasan	MSc	Teaching Assistant	nabeel.hasan@uod.ac

22. Facilities and Resources (Lecture halls, Labs, etc.)

The department uses these facilities:

Type	Quantity	Capacity (students)	Type of use	Equipment included
Lecture Hall	4	35	Dedicated	Projector, whiteboard
Lecture Hall	2	50	Dedicated	Projector, whiteboard
Chemistry Lab for Undergraduates	8	15	Dedicated	Projector, whiteboard, Glassware, Chemicals, instruments, 5 benches, refrigerator, Hood
Chemistry Lab for Post-graduates and Researchers	8	5	Dedicated	Projector, whiteboard, Glassware, Chemicals, instruments, 2 benches, refrigerator, Hood
Storages	2		Dedicated	Glassware, Chemicals, and Instruments

23. Accreditation and recognition

The programme is officially recognized by the Ministry of Higher Education and Scientific Research of the Kurdistan Region – Iraq, as well as by the Ministry of Higher Education and Scientific Research of Iraq.