

University of Mosul

جامعة الموصل



First Cycle – Bachelor's degree (B.Sc.) – Environmental Health Sciences

بكالوريوس علوم بيئة – صحة بيئية



كلية العلوم البيئية
قسم الصحة البيئية
(رسمي)

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1. Mission & Vision Statement

Vision Statement The Environmental Health Department is looking forward to prepare qualified graduates to transfer experience to governmental institutions and departments related to human health and the environment and to make a positive impact on the level of public health in society in order to serve the requirements of the labor market to achieve the vision of the Environmental Health Department to keep pace with the challenges of the times and serve the goals of sustainable development to be consistent with the vision of the college and university.

Mission Statement

The Environmental Health Department contributes to scientific and practical knowledge in both the health and environmental sectors, and the interconnection between them. Also, the practical application is necessary to keep pace with the accelerating challenges in Iraqi environmental health by preparing specialized cadres in the field of environmental health technologies.

2. Program Specification

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

About the department

It is one of the four main scientific departments in the College of Environmental Sciences. It was established in the academic year 2023-2024. The department seeks to develop the scope of environmental health education and raises awareness in the field of human health and mutual relations with its environment, as it addresses a variety of issues related to the environment and community health that concern individuals through the department's learning outputs, in addition to the workshops, courses, and seminars held by the department.

The Department of Environmental Health offers a group of disciplines concerned with the environment and health for the purpose of improving the health and well-being of the population by raising the quality of living in order to develop complex processes that keep pace with the challenges facing the world at the present time and which enable students to develop proficiency in a wide range of environmental health skills. Also, it includes management of public health dealing with infectious diseases, epidemics, community health, primary health care, toxins, food safety, and hazardous factors, including chemical, biological, and radiological contaminants.

3. Program Objectives

The Goals:

1. Providing multidisciplinary programs and curricula for the purpose of preparing students and researchers to lead sustainable work in the country and seek jobs in the field of health and environment.
2. Conduct academic and applied research that contributes to achieving governmental policies and developing solutions to existing challenges in society to reach a sustainable healthy environment.
3. Establishing cultural and academic relations with corresponding organizations, centers and environmental health departments locally and globally.
4. Providing a set of knowledge and skills that contribute to the development of occupational safety in public directorates in general

4. Student Learning Outcomes

Overview of the Department of Environmental Health

The Department of Environmental Health is a specialized academic unit within the College of Environmental Sciences – University of Mosul. It focuses on studying the interactions between various environmental factors and human health, with an emphasis on the prevention of environmental hazards and the promotion of quality of life. The department aims to prepare qualified scientific personnel equipped with the knowledge and skills necessary to identify environmentally-related health problems and propose appropriate solutions based on scientific principles and modern technologies.

The department offers a comprehensive academic program that includes theoretical and practical courses covering diverse topics such as air, water, and soil pollution, waste management, occupational health, environmental epidemiology, environmental impact assessment, and the health effects of climate change. It also emphasizes enhancing students' abilities in scientific research, environmental analysis, and evidence-based decision-making.

Graduates of the department have a wide range of career opportunities in relevant governmental institutions such as the Ministries of Health, Environment, and Municipalities, as well as in research centers and local and international organizations working in the fields of health and environment. Moreover, graduates are well-prepared to pursue postgraduate studies and engage in academic and research careers.

5. Academic Staff

No.	Name	Academic title	General/Precise Jurisdiction
1	Dr. Mohammed Yahya Ali Allawy	Assistant Professor	Biology - Mycology
2	Suha Abdullah Najim	Assistant Professor	Physics/Solid State Physics
3	Dr. Yusra majeed shihab al-shaker	Assistant Professor	Chemistry / Analytical Chemistry
4	Dr. Rehab Abd Aljabar Hamid	Assistant Professor	Science of Life / Science of Life
5	Dr. Shaymaa khaleel alhialy	Assistant Professor	Life Sciences/Plant Genetics
6	Dr. Liqaa Saeed Abdullahd	Lecturer	Chemistry / Biochemistry
7	Dr. Omar Idrees Salih	Lecturer	Chemistry / Inorganic Chemistry
8	Nabeel Zuhair Tawfeeq	Lecturer	Computer Science / Computer
9	Rihab Raad Dawood	Assistant Lecturer	Physics Sciences
10	Dhafar thamer altaan	Assistant Lecturer	Computer Engineering / Electrical and Computer Engineering
11	Ragheed Duraid Al Dabbagh	Assistant Lecturer	Computer Science/Data Mining
12	Basma Bashar Haseeb	Assistant Lecturer	bioscience
13	Salim Rabee Khalf	Assistant Lecturer	Environmental Sciences
14	Muthana Waad Mohameed	Assistant Lecturer	Environmental Sciences
15	Wasan Jassim Hassan	Assistant Lecturer	Environmental Sciences
16	Esraa Ahmed Saeed	Assistant Lecturer	Environmental Sciences
17	Ghazwan Thamir Qasim	Assistant Lecturer	Chemistry/Organic Chemistry
18	Omar Hamad Juma	Assistant Lecturer	Life Sciences / Microbiology

6. Credits, Grading and GPA

Credits

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:

GRADING SCHEME مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

- 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 ENVSCI degree:

$$CGPA = [(1^{st} \text{ module score} \times ECTS) + (2^{nd} \text{ module score} \times ECTS) + \dots] / 240$$

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Env101	General Biology	108	92	8	B	
Env102	Analytical Chemistry	108	92	8	B	
Env103	Ecology	93	82	7	C	
Env104	Human Right &Democracy	33	17	2	B	
Uom103	Computer I	48	27	3	S	
Uom101	Arabic Language	33	17	2	S	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Env107	Human Cytology	93	82	7	C	
Env109	MEDICAL Physics	93	82	7	C	
Env110	Environmental Health Science	63	62	5	C	
Env108	Organic chemistry	93	57	6	B	
Uom111	Compute II	48	27	3	S	
Uom112	English Language 1	33	17	2	S	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Env201	Microbiology	78	72	6	B	
Env203	Toxicology	63	62	5	C	
Env204	Biochemistry	78	72	6	C	
Env205	Radiation and Human Health	93	32	5	C	
Env202	Biostatistics	63	37	4	B	
Uom2050	Crimes of the Baath regime in Iraq	33	17	2	S	
Uom2012	Arabic language2	33	17	2	S	

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
Env207	Physiology	63	62	5	C	
Env208	Medical Bacteriology	63	62	5	C	
Env209	Parasitology	63	62	5	C	
Env210	Environmental Chemistry	63	62	5	C	
Env211	Immunology	63	62	5	C	
UOM2022	English language 2	33	17	2	S	
UOM2032	Computer Science 2	48	27	3	S	

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ENV301	Molecular Biology	63.00	87	6.00	C	
ENV302	Nutrition	63.00	62	5.00	C	
ENV303	Occupational Health & Safety	63.00	62	5.00	C	
ENV304	Environmental Health Legislations	48.00	52	4.00	C	
ENV307	Biodiversity	63.00	62	5.00	C	
ENV306	Climate changes	63.00	62	5.00	B	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ENV308	Air Quality & Pollution	63.00	62	6.00	C	
ENV305	Biotechnology	63.00	62	6.00	B	
ENV309	Food Safety	63.00	62	5.00	C	
ENV310	Nanotechnology	63.00	62	5.00	C	
ENV311	Epidemiology & Community Health	63.00	62	6.00	C	
ENV312	Heavy metal processing	63.00	62	2.00	B	

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ENV401	Mycology	78.00	72	6.00	C	
ENV402	Solid & Hazardous Waste Management	63.00	87	6.00	C	
ENV403	Medical Virology	78.00	72	6.00	C	
ENV404	Professional ethics	33.00	42	3.00	C	
ENV405	Environmental Impact Assessment	63.00	37	4.00	C	
ENV406	Bioremediation	63.00	62	5.00	C	

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ENV407	Research Project I	63.00	87	6.00	C	
ENV412	Serology & Vaccines	78.00	47	5.00	C	
ENV409	Sustainable management	63.00	62	5.00	C	
ENV410	Transmissible Diseases	63.00	62	5.00	C	
ENV408	Water and Wastewater Treatment	63.00	62	5.00	B	
ENV411	Enviromental medicine	48.00	52	4.00	B	

8. Contact

Program Manager:

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