

# Al-Qasim Green University



## جامعة القاسم الخضراء كلية علوم البيئة-قسم الصحة البيئية

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

بكالوريوس علوم البيئة - الصحة البيئية



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## 1. **Mission & Vision Statement**

### *Vision Statement*

The Environmental Health Department is dedicated to generate and disseminate knowledge for the sustainable use of natural and managed environment through the theoretical and practical educational fields. The college seeks to attract students who are interested in environmental specialization to contribute in serving of society effectively through the protection and improvement of the environment in Iraq.

### *Mission Statement*

Contributing to the scientific and environmental health knowledge and practical application that needed to keep pace with the accelerating challenges in the Iraqi environment and health sectors through a number of specialized staff in the field of environmental health, environmental technologies, environmental pollution and sustainable development.

## 2. Program Specification

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

The Department of Environmental Health is one of the main scientific departments in the College of Environmental Sciences, which aims to develop the scope of environmental health education and to raise awareness in the field of human health.

A diverse range of environment - community health interaction issues that concern individuals are carefully addressed through educational courses. The environmental health department offers in depth elective courses, which enable students to develop competence in a wide range of environmental health skills.

Graduates may focus on infection diseases, toxicology, food safety, hazardous factors including chemical, biological and radiological contaminants. The Department of Environmental Health aims to contribute significantly in efforts to protect human health.

The teaching objective of this department is to providing skills that qualify students to work in many fields.

Level 1 exposes students to the fundamentals of Environmental Health and Ecology, suitable for progression to all programs within the Environmental Health program group. Program-specific core topics are covered at Level 2 preparing for research-led subject specialist modules at Levels 3 and 4.

A Leeds Environmental Health graduate is therefore trained to appreciate how research informs teaching, according to the University, College and Department Mission statements.

The research ethos is developed and fostered from the start via practicals, which are either embedded in lecture modules or taught in dedicated practical modules, research seminars and practical training.

Studied modules are held at Levels 1 and 2, providing continuity and progressive guidance. Level 1 and 2 tutorials include a number of workshops to teach skills through structured and unstructured student workload, e.g. library use and presentation skills, followed by assessed exercises, e.g. essays and talks, as opportunities to practice these skills in a subject-specific context.

At Level 4 all students carry out an independent research project, which may be a high credit library or data analysis project, or a high credit field or laboratory based project.

### **3. Program Goals**

1. Provide education for students at all levels, involving them in the research process to foster their education, preparing them to diagnosis of environmental health problems and work to find appropriate solutions.
2. Conducting research that contributes to describe and identify the environmental health problems and challenges.
3. Establishing of cultural and academic relations with environmental health organizations and centers, locally and internationally.
4. Offering an array of training courses for the development of analytical skills, focusing in-depth understanding of environmental health problems.
5. Provide training courses designed to increase the environmental health awareness at the private and public.

### **4. Student Learning Outcomes**

The Department of Environmental Health is one of the main scientific departments in the College of Environmental Sciences, which aims to develop the scope of environmental health education and to raise awareness in the field of human health. A diverse range of environment - community health interaction issues that concern individuals are carefully addressed through educational courses. The environmental health department offers in depth elective courses, which enable students to develop competence in a wide range of environmental health skills. Graduates may focus on infection diseases, toxicology, food safety, hazardous factors including chemical, biological and radiological contaminants..

The Department of Environmental Health aims to contribute significantly in efforts to protect human health. The teaching objective of this department is to providing skills that qualify students to work in many fields.

The graduate of the department of environmental health acquires the environmental scientific knowledge and the skills needed to work as an environmental health researcher in different fields. The degree programs equip the graduate with an ability to monitor and enforce standards of environmental and public health, including food hygiene, safety at work, housing and noise and pollution control, preventing environmental health conditions damaging to health and promoting good environmental practices. .These scientific and technical capabilities will meet the national need of the academic and applied labor market in the private and public sectors. The graduate will be able to carry out independent scientific research on various aspects of environmental issues as well as postgraduate degrees (master's and doctorate) in environmental disciplines.

#### **Outcome 1**

##### *Identification of Complex Relationships*

Graduates will be able to illustrate the structure and function of environment and health components and explain how they interact in a human life.

## **Outcome 2**

### *Oral and Written Communication*

Graduates will be able to formally communicate the results of environmental health investigations using both oral and written communication skills.

## **Outcome 3**

### *Laboratory and Field Studies*

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment while observing appropriate environmental health safety protocols.

## **Outcome 4**

### *Scientific Knowledge*

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of environmental health science.

## **Outcome 5**

### *Data Analyses*

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses on environmental health sector.

## **Outcome 6**

### *Critical Thinking*

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

## **5. Academic Staff**

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## 6. Credits, Grading and GPA

### Credits

Al-Qasim Green University/ Environmental Sciences College/ Environmental Health Departmet 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	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded

(0 – 49)	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 B.Sc. degree:

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

## **7. Curriculum/Modules**

### **Semester 1 | 30 ECTS | 1 ECTS = 27 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE2601	General Biology	93	57	6.00	B	Non
QEHE2602	Analytical Chemistry	93	57	6.00	B	Non
QEHE3603	Ecology	93	57	6.00	C	Non
QEHE1404	Human Rights & Democracy	48	52	4.00	B	Non
QEHE1405	English Language I	48	52	4.00	B	Non
QEHE1406	Professional Ethics	48	52	4.00	B	Non

### **Semester 2 | 30 ECTS | 1 ECTS = 27 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE3607	Human Cytology	93	57	6.00	C	Non
QEHE2608	Organic Chemistry	93	57	6.00	B	Non
QEHE1609	Computer Science 1	78	72	6.00	B	Non
QEHE3610	Medical Physics	93	57	6.00	C	Non
QEHE3611	Environmental Health Science	63	87	6.00	C	Non

### **Semester 3 | 30 ECTS | 1 ECTS = 26 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE3612	Microbiology	78	72	6.00	C	Non
QEHE2413	Biostatistics	63	37	4.00	B	Non
QEHE2514	Toxicology	63	62	5.00	C	Non
QEHE3615	Biochemistry	78	72	6.00	C	Non

QEHE1516	Computer Science II	63	62	5.00	B	Non
QEHE3417	Public Health	63	37	4.00	C	Non

**Semester 4 | 30 ECTS | 1 ECTS = 26 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE3618	Physiology	78	72	6.00	C	Non
QEHE3619	Medical Bacteriology	78	72	6.00	C	Non
QEHE3620	Parasitology	93	57	6.00	C	Non
QEHE3521	Environmental Chemistry	63	62	5.00	C	Non
QEHE3522	Immunology	63	62	5.00	C	Non
QEHE1223	English Language II	33	17	2.00	B	Non

**Semester 5 | 30 ECTS | 1 ECTS = 26 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE3724	Medical Molecular Biology	93	82	7.00	C	Non
QEHE3625	Nutrition	78	72	6.00	C	Non
QEHE3626	Radiation and Human Health	93	57	6.00	C	Non
QEHE3527	Occupational Health & Safety	63	62	5.00	C	Non
QEHE3428	Environmental Health Legislations	48	52	4.00	C	Non
QEHE3229	Seminar	33	17	2.00	B	Non

**Semester 6 | 30 ECTS | 1 ECTS = 27 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE3630	Biodiversity	78	72	6.00	C	Non
QEHE3631	Air Quality & Pollution	78	72	6.00	C	Non
QEHE3532	Food Safety	78	47	5.00	C	Non
QEHE3533	Nanotechnology	78	47	5.00	C	Non
QEHE3634	Epidemiology & Community Health	78	72	6.00	C	Non
QEHE1235	English Language III	33	17	2.00	B	Non

**Semester 7 | 30 ECTS | 1 ECTS = 27 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE3636	Research Project I	93	57	6.00	C	Non
QEHE3637	Community Health & Infectious Diseases	78	72	6.00	C	Non
QEHE3638	Medical Virology	78	72	6.00	C	Non
QEHE3439	Solid & Hazardous Waste Management	63	37	4.00	C	Non



QEHE3440	Environmental Impact Assessment	48	52	4.00	C	Non
QEHE3441	Bioremediation	63	37	4.00	C	Non

**Semester 8 | 30 ECTS | 1 ECTS = 26 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
QEHE3642	Research Project II	93	57	6.00	C	Non
QEHE3443	Water and Wastewater Treatment	63	37	4.00	B	Non
QEHE3544	Environmental Toxins	63	62	5.00	C	Non
QEHE3645	Transmissible Diseases	78	72	6.00	C	Non
QEHE3446	Quality Control	33	67	4.00	B	Non
QEHE3547	Serology & Vaccines	78	47	5.00	C	Non

## 8. Contact

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