

Undergraduate Degree Program Catalogue | 2025-2026 |
دليل البرنامج الدراسي



AI MUSTAQBAL UNIVERSITY
College of Sciences
(جامعة المستقبل – كلية العلوم)



Bachelor of Science (B.Sc.) – Department of biology Sciences

بكالوريوس علوم – علوم الحياة



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1. Mission & Vision Statement

Vision Statement

The Department biology Sciences seeks to provide students with the necessary knowledge and skills in the field of life sciences, enable them to think critically and creatively, and motivate them to explore and understand biodiversity and vital processes at the level of cells and ecosystems. The department is committed to providing a supportive and stimulating learning environment that encourages students to innovate, scientific research, and community participation. We seek to graduate generations of experts in the fields of life sciences, qualified to contribute to the progress of society and the advancement of the nation through research work and technological innovation.

The vision of biology Sciences Department is to achieve the highest levels of academic excellence in teaching life sciences, giving our students a deep and comprehensive understanding of biological concepts and principles. We encourage research and innovation in the areas of biological life, enabling students to acquire research skills and apply theoretical knowledge to modern challenges in life. Field of biology. The department seeks to build strong bridges with the local and industrial community and promote environmental awareness

2. Program Specification

Programm code:	BSc-Science/ Department of biology Sciences	ECTS	248
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

The Department biology Sciences seeks to provide students with the necessary knowledge and skills in the field of life sciences, enable them to think critically and creatively, and motivate them to explore and understand biodiversity and vital processes at the level of cells and ecosystems. The department is committed to providing a supportive and stimulating learning environment that encourages students to innovate, scientific research, and community participation. We seek to graduate generations of experts in the fields of life sciences, qualified to contribute to the progress of society and the advancement of the nation through research work and technological innovation.

3. Program Goals

4. • Providing distinct and diverse study programs in the fields of life sciences, that meet market needs and enable students to excel academically and professionally.
5. • Expanding students' scientific horizons by offering advanced and updated educational curricula that include various specializations in the life sciences.
6. • Promoting scientific research and innovation in the fields of life sciences and encouraging students to actively participate in research activities.
7. • Enhancing interaction and communication with the local and industrial community by conducting workshops, seminars, and educational and awareness-raising events in the fields of life sciences.

8. • Providing students with practical skills and modern techniques in the fields of microbiology, zoology, mycology, plant sciences, biotechnology, cellular genetics, and ecology.
9. • Motivating students to think critically, innovate and develop self-research projects.
10. • Providing ongoing academic support and counseling to students to help achieve their academic and career goals.
11. • Encourage students to participate in student and community activities and develop leadership and team cooperation skills Mastering the skills necessary for the student to move to a stage specializing in computer and information security.

4. Academic Staff

Prof. Dr. Ali Shaalan Muailif | Ph.D. | Prof. | Lecturer. Head of Department

Jafar Hamed Jafar | M.Sc. | Asst. Lecturer. Department decision

Dr. Aseel Hashem Radi | Ph.D. | Lecturer.

Prof. Dr. Khairy Abdullah Daoud | Ph.D. | Prof. | Lecturer.

Prof. Dr. Dina Mohamed Raouf | Ph.D. | Prof. | Lecturer.

Dr. Abdul Hussein Mazhar Arabi | Ph.D. | Lecturer.

Prof. Dr. Dargham Ali Abbas Kamel | Ph.D. | Lecturer.

Zainab Nazim Aziz | M.Sc. | Asst. Lecturer.

Zahra Jawad Kazim | M.Sc. | Asst. Lecturer..

Duhaa Abdul Amir Mohammed M.Sc. | Asst. Lecturer..

5. Credits, Grading and GPA

Credits

Al-Mustaqbal University-Iraq 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 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	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

NB 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 Grade Point Average (GPA)

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

GPA of a 4-year B.Sc. degrees:

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

6. Curriculum/Modules

Executive Summary
Modules are classified as:
B: Basic learning activities = $\frac{1}{3}$ from total modules = 30 ECTS
S: Related or support learning activity = $\frac{1}{3}$ from total modules = 30 ECTS
C: Core learning activity = $\frac{1}{3}$ from total modules = 30 ECTS
E: Elective learning activity

B	S	C
basic	supportive	core

جمهورية العراق - وزارة التعليم العالي والبحث العلمي

جامعة المستقبل - كلية العلوم

بكالوريوس علوم في علوم الحياة (الدورة الأولى)

أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة ائتمانية - كل وحدة ائتمانية = ٢٥ ساعة

المنهاج الدراسي للعام ٢٠٢٣-٢٠٢٤

Level	Semester	No.1	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL	USSWL	SWL	ECTS	Module Type	Prerequisite Module(s) Code
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)				ECTS			
UGI	One	1	UOMU0601011	General Zoology	علم الحيوان العام	English	2		2				4	64	61	125	5.00	C	
		2	UOMU0601012	Analytical Chemistry	كيمياء تحليلية	English	2		2				4	64	86	150	6.00	C	UOMU0601022
		3	UOMU0601013	General Mathematics	الرياضيات العامة	English	2		1				4	49	101	150	6.00	B	UOMU0601023
		4	UOMU0601014	Biophysics	فيزياء حيوية	English	2		2				4	64	61	125	5.00	C	
		5	UOMU0601015	Human Rights and Democracy	حقوق الإنسان وديمقراطية	Arabic	2						4	34	66	100	4.00	B	
		6	UOMU0601016	Arabic Language	اللغة العربية	Arabic	2						4	34	66	100	4.00	B	
				Total			12	1	6				24	309	441	750	30		
	Two	1	UOMU0601021	General Botany	علم النبات العام	English	2		2		2	1	8	109	91	200	8.00	C	
		2	UOMU0601022	Organic Chemistry	كيمياء عضوية	English	2		2		2		7	94	81	175	7.00	S	UOBAB0601012
		3	UOMU0601023	Biostatistics	إحصاء حيائي	English	2				1		4	32	93	125	5.00	S	UOBAB0601013
		4	UOMU0601024	Safety and bioscurity	السلامة والأمن البيولوجي	Arabic	2						2	32	93	125	5.00	S	
		5	UOMU0601025	Computer Science I	علم الحاسوب I	English	2				1		4	40	35	75	3.00	S	
		6	UOMU0601026	English Language I	اللغة الانكليزية I	English	2						3	33	17	50	2.00	B	
				Total			12		4		6	1	28	340	410	750	30		
UGII	One	1	UOMU0601031	Entomology I	علم الحشرات I	English	2	2	2				3	93	57	150	6.00	C	
		2	UOMU0601032	Plant Anatomy	علم تشريح النبات	Arabic	2	2	2				3	93	57	150	6.00	C	
		3	UOMU0601033	Invertebrates	علم اللافقريات	English	2	2	2				3	93	57	150	6.00	C	
		4	UOMU0601034	Microbiology	علم الأحياء المجهرية I	English	2	2	2				3	93	57	150	6.00	C	
		5	UOMU0601035	Plant Groups	مجموعات نباتية	English	2		2				3	63	37	100	4.00	C	
		6	UOMU000007	Crimes of the defunct Baath	جرائم حزب البعث البائد	Arabic	2						3	33	17	50	2.00	B	
				Total			12	8	10				18	468	282	750	30		
	Two	1	UOMU0601041	Entomology II	علم الحشرات II	English	1	2	2			1	2	92	33	125	5.00	C	
		2	UOMU0601042	Plant Taxonomy	علم تصنيف النبات	Arabic	1	2	2			1	2	92	33	125	5.00	C	
		3	UOMU0601043	Biochemistry II	كيمياء حيوية II	English	1	2	2			1	2	92	33	125	5.00	S	
		4	UOMU0601044	Microbiology II	علم الأحياء المجهرية II	English	1	2	2			1	2	92	33	125	5.00	C	
		5	UOMU0601045	Parasitology	علم الطفيليات	English		2	2			1	2	92	33	125	5.00	C	
		6	UOMU000002	English Language II	اللغة الانكليزية II	English		2					2	32	18	50	2.00	B	
		7	UOMU0601047	Computer Science II	علم الحاسوب II	English		2	2				2	62	13	75	3.00	S	
				Total			4	14	12			5	14	554	196	750	30		