



Ministry of Higher Education and Scientific Research
 University of Fallujah
 Bachelor's degree in Biotechnology (First cycle)
 4 years (Eight semesters) - 240 ECTS credits - 1 ECTS =
 Program Curriculum (2023 - 2024)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي
 جامعة الفلوجة

بكالوريوس في التقنيات الاحيائية (الدورة الأولى)
 أربع سنوات (ثمانية فصول دراسية) - 240 وحدة اوروبية - كل وحدة اوروبية = 25 ساعة
 المنهاج الدراسي للعام 2023-2024



Level	Semester	No.	Module Code	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	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)								
UGI	One	1		اسس التقنيات الاحيائية	English	4	2	2	0	0	0	4	125	50	175	8.00	C		
		2		الفيزياء الحياتية	English	4	2	2	0	0	0	4	100	25	125	7.00	B		
		3		الحاسوب	English	2	0	2	0	0	0	2	75	50	125	3.00	B		
		4		اللغة الانكليزية	English	2	2	0	0	0	0	2	50	25	75	2.00	S		
		5		حقوق انسان وديمقراطية	Arabic	2	2	0	0	0	0	2	53	22	75	2.00	S		
		6		علم الاحياء	English	2							125	50	175	8.00	S		
					Total	16	8	6	0	0	0	14	528	222	750	30.00			
UGI	Two	1		الوراثة	English	4	3	2	0	0	0	4	153	47	200	8.00	C		
		2		علم الكيمياء	English	4	3	2	0	0	0	4	128	72	200	8.00	B		
		3		علم الاحصاء الحياتي	English	2	3	0	0	0		2	75	50	125	6.00	B		
		4		السلامة والامن البايولوجي	English	2	3	0	0	0		2	53	22	75	3.00	B		
		5		اللغة العربية	Arabic	2	2	0	0	0	0	2	53	22	75	3.00	S		
		6		جرائم حزب البعث	Arabic	2	2	0	0	0	0	2	53	22	75	2.00	S		
					Total	16	16	4	0	0	0	16	515	235	750	30.00			
	Three	1	Biot-211	Microbiology									0		0	0.00			
		2	Biot-212	Biochemistry										0		0	0.00		
		3	Biot-213	Histology										0		0	0.00		
		4	Biot-214	nanotechnology										0		0	0.00		
		5	Biot-215	mycology										0		0	0.00		
		6												0		0	0.00		
					Total	0	0	0	0	0	0	0	0	0	0	0.00			

UGII	Semester	No.	Module Code	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW ₁ hr/sem	SWL hr/sem	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)							
Four	1	Biot-221	Histological preparation									0		0	0.00			
	2	Biot-222	fermentation									0		0	0.00			
	3	Biot-223	Environmental microbiology									0		0	0.00			
	4	Biot-224	algae									0		0	0.00			
	5	Biot-225	clinical biochemistry									0		0	0.00			
	6											0		0	0.00			
						Total	0	0	0	0	0	0	0	0	0	0.00		
Level	Semester	No.	Module Code	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW ₁ hr/sem	SWL hr/sem	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)							
Five	1	Biot-311	pathological bacteria									0		0	0.00			
	2	Biot-312	animal physiology									0		0	0.00			
	3	Biot-313	immunology									0		0	0.00			
	4	Biot-314	virology									0		0	0.00			
	5	Biot-315	molecular biology									0		0	0.00			
	6											0		0	0.00			
						Total	0	0	0	0	0	0	0	0	0	0.00		
UGIII	Semester	No.	Module Code	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW ₁ hr/sem	SWL hr/sem	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)							
Six	1	Biot-321	microbial genetic									0		0	0.00			
	2	Biot-322	plant physiology									0		0	0.00			
	3	Biot-323	antibiotics									0		0	0.00			
	4	Biot-324	endocrinology									0		0	0.00			
	5	Biot-325	project planning and analysis									0		0	0.00			
	6											0		0	0.00			
						Total	0	0	0	0	0	0	0	0	0	0.00		
Level	Semester	No.	Module Code	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW ₁ hr/sem	SWL hr/sem	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)							
Seven	1	Biot-411	genetic engineering									0		0	0.00			
	2	Biot-412	bioinformatics									0		0	0.00			
	3	Biot-413	plant tissue culture									0		0	0.00			
	4	Biot-414	industrial microbiology									0		0	0.00			
	5	Biot-415	cytogenetic									0		0	0.00			
						Total	0	0	0	0	0	0	0	0	0	0.0		

UGIV	Semester	No.	Module Code	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	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)							
Eight	1	Biot-421	genetic and molecular diagnosis									0		0	0.00			
	2	Biot-422	toxicology									0		0	0.00			
	3	Biot-423	animal tissue culture									0		0	0.00			
	4	Biot-424	food microbiology									0		0	0.00			
	5	Biot-425	research project									0		0	0.00			
	Total						0	0	0	0	0	0	0	0	0	0.0		
Total						32	24	10	0	0	0	30	1043	457	1500	60.0		Must be 240 ECTS
Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree																		
Structured SWL (hr/w) type	CL	Class Lecture	Module type	B	Basic learning activities	SWL:	Student Workload											
	Lab	Laboratory		C	Core learning activity		SSWL:	Structured SWL										
	Pr	Practical Training		S	Support or related learning activity		USSWL:	Unstructured SWL										
	Tut	Tutorial		E	Elective learning activity													
	Lect	Online lecture																
Sem	Seminar	Note: Columns O, Q and R are programmed, protected and should not be edited																