



Republic of Iraq - Ministry of Higher Education and Scientific Research
University of Mosul
Bachelor's degree in Biology (First cycle)
Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr
Program Curriculum (2024 - 2025)



Level	Semester	No.1	Module Code	Module Name in English	Language	SSWL (hr/w)					Semn (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)								
UGI	One	1	Bio-1101	General Zoology	English	2	2	3				3	108	92	200	8.00	C	
		2	Bio-1102	Analytical Chemistry	English	2	2	3				3	108	92	200	8.00	C	
		3	Sci-101	Mathematics	English	2						3	33	17	50	2.00	B	
		4	Bio-1103	Biophysics	English	2	2	3				3	108	92	200	8.00	C	
		5	UOM104	Democracy and Human Rights	Arabic	2						3	33	17	50	2.00	B	
		6	UOM101	Arabic Language1	Arabic	2						3	45	5	50	2.00	B	
					Total	12	7	9	0	0	0	18	435	315	750	30.00		
	Two	1	Bio-1204	General Botany	English	2	2	3				3	108	92	200	8.00	C	
		2	Bio-1205	Organic Chemistry	English	2	2	3				3	108	92	200	8.00	C	
		3	Bio-1206	Biostatistics	English	2	2					3	63	62	125	5.00	C	
		4	Bio-1207	Safety and bioscurity	Arabic	2	2					3	63	37	100	4.00	C	
		5	UOM103	Computer Science1	English	2		2				3	63	12	75	3.00	B	
		6	UOM102	English Language 1	English	2	1					3	45	5	50	2.00	B	
					Total	12	9	8	0	0	0	18	450	300	750	30.00		
UGII	Three	1	Bio-2308	Entomology I	English	2		3				3	78	47	125	5.00	C	
		2	Bio-2309	Plant Anatomy	English	2		3				3	78	47	125	5.00	C	
		3	Bio-23010	Invertebrates	English	2	1	3				3	79	71	150	6.00	C	
		4	Bio-23011	Biochemistry I	English	2		3				3	78	47	125	5.00	C	
		5	Bio-23012	Microbiology I	English	2		3				3	78	47	125	5.00	C	
		6	UOM2050	Crimes of the Baath party	Arabic	2						3	33	17	50	2.00	B	
		7	UOM2012	Arabic Language 2	Arabic	2						3	33	17	50	2.00	B	
					Total	12	1	15	0	0	0	21	457	293	750	30.00		
	Four	1	Bio-24113	Entomology II	English	2		3				3	78	22	100	4.00	C	Bio-2308
		2	Bio-24114	Plant Taxonomy	English	2		3				3	78	22	100	4.00	C	Bio-2309
		3	Bio-24115	Parasitology	English	2		3				3	78	22	100	4.00	C	Bio-23010
		4	Bio-24116	Biochemistry II	English	2		3				3	78	22	100	4.00	C	Bio-23011
		5	Bio-24117	Microbiology II	English	2		3				3	78	47	125	5.00	C	Bio-23012
		6	Bio-24018	Plant Groups	English	2		3				3	78	22	100	4.00	C	

		7	UOM2032	Computer Science2		English	2		2				3	63	12	75	3.00	B			
		8	UOM2022	English Language 2		English	2						3	33	17	50	2.00	B			
						Total	16	0	20	0	0	0	24	564	186	750	30.00				
Level	Semester	No.	Module Code	Module Name in English		Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code		
	Five/BIOLOGY	1	Bio1-35019	Cell Biology		English	2		3				3	78	47	125	5.00	C			
		2	Bio1-35020	Ecology		English	2		3				3	78	47	125	5.00	C			
		3	Bio1-35021	Biotechnology		English	2		3				3	78	47	125	5.00	C			
		4	Bio1-35022	Mycology I		English	2		3				3	78	47	125	5.00	C			
		5	Bio1-35023-L Bio1-35023-A	Elective (Laboratory analysis + Applied and Economic Microbiology)	English	2		3				3	78	47	125	5.00	C				
		6	Bio1-35024	Mycotoxins		English	2		3				3	78	47	125	5.00	C			
						Total	12	0	18	0	0	5	18	468	282	750	30.00				
UGIII	Semester	No.	Module Code	Module Name in English		Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code		
	Six/BIOLOGY	1	Bio1-36025	Plant Pathology		English	2		3				3	78	72	150	6.00	C			
		2	Bio1-36026	Histology		English	2		3				3	78	72	150	6.00	C			
		3	Bio1-36027-D Bio1-36027-E	Elective (Diagnostic parasite + Endocrinology)	English	2		3				3	78	72	150	6.00	C				
		4	Bio1-36128	Pollution	English	2	1	2				3	64	36	100	4.00	C	Bio1-35020			
		5	Bio1-36129	Genetics	English	2		3				3	78	47	125	5.00	C	Bio1-35019			
		6	Bio1-36030	Allelopathy	English	2		2				3	63	12	75	3.00	C				
						Total	12	1	18	4	0	4	18	439	311	750	30.00				
Level	Semester	No.	Module Code	Module Name in English		Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code		
	Five/Microbiology	1	Bio2-35019	Soil Microbiology		English	2		3				3	78	47	125	5.00	C			
		2	Bio2-35020-L Bio2-35020-C	Elective (Laboratory Analysis + Diagnostic parasitology)	English	2		3				3	78	47	125	5.00	C				
		3	Bio2-35021	Histology	English	2		3				3	78	47	125	5.00	C				
		4	Bio2-35022	Ecology	English	2		3				3	78	47	125	5.00	C				
		5	Bio2-35023	Cell Biology	English	2		3				3	78	47	125	5.00	C				
		6	Bio2-35024	Classification and Bacterial groups	English	2		3				3	78	47	125	5.00	C				
						Total	12	0	18	0	0	0	18	468	282	750	30.0				
UGIV	Semester	No.	Module Code	Module Name in English		Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSW L hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code		
	Six/Microbiology	1	Bio2-36025	Water Microbiology		English	2		3				3	78	47	125	5.00	C			
		2	Bio2-36026	Bacterial Physiology		English	2		3				3	78	47	125	5.00	C			
		3	Bio2-36027	Animal Physiology		English	2		3				3	78	47	125	5.00	C			
		4	Bio2-36128	Pollution	English	2	1	2				3	78	47	125	5.00	C	Bio2-35022			
		5	Bio2-36129	Genetics	English	2		2				3	78	47	125	5.00	C	Bio2-35023			
		6	Bio2-36030-A Bio2-36030-C	Elective (Antibiotics + Mycotoxins)	English	2		3				3	78	47	125	5.00	C				
						Total	12	1	16	0	0	0	18	468	282	750	30.0				
Level	Semester	No.	Module Code	Module Name in English		Language	SSWL (hr/w)						Exam	SSWL	USSW L	SWL	ECTS	Module	Prerequisite		

Level	Semester	No.	Code	Module Name in English	Language	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem	ECTS	Type	Module(s) Code		
UGIV	Seven/BIOLOGY	1	Bio1-47031	Animal Physiology 1	English	2	1	3				3	79	71	150	6.00	C			
		2	Bio1-47032	Plant Physiology 1	English	2		3				3	78	47	125	5.00	C			
		3	Bio1-47033	Embryology	English	2	1	3				3	79	71	150	6.00	C			
		4	Bio1-47034	Quantitative Genetics	English	2	1	3				3	79	71	150	6.00	C			
		5	Bio1-47035	Molecular biology	English	2		3				3	78	47	125	5.00	C			
		6	Bio1-47036	Research Methodology	English	2						3	33	17	50	2.00	C			
					Total	12	5	15	0	0	0	18	426	324	750	30.0				
UGIV	Eight/BIOLOGY	1	Bio1-48137	Animal Physiology 2	English	2	1	3				3	79	71	150	6.00	C	Bio1-47031		
		2	Bio1-48138	Plant Physiology 2	English	2	1	3				3	79	71	150	6.00	C	Bio1-47032		
		3	Bio1-48039	Comparative Anatomy	English	2	1	3				3	79	71	150	6.00	C			
		4	Bio1-48040	Biodiversity	English	2	1	3				3	79	71	150	6.00	C			
		5	Bio1-48041	Immunology	English	2		3				3	78	22	100	4.00	C			
		6	Bio1-48142	Research Project	English	2						3	33	17	50	2.00	C	Bio1-47036		
				Total	12		15	0	0	0	18	427	323	750	30.0					
UGIV	Seven/MICROBIOLOGY	1	Bio2-47031	Immunology	English	2	1	3				3	79	71	150	6.00	C			
		2	Bio2-47032	pathogenic Bacteriology	English	2	1	3				3	79	71	150	6.00	C			
		3	Bio2-47033	Food Microbiology	English	2		3				3	78	47	125	5.00	C			
		4	Bio2-47034	Mycology	English	2		3				3	78	47	125	5.00	C			
		5	Bio2-47035	Enzymology	English	2	1	3				3	79	71	150	6.00	C			
		6	Bio2-47036	Research Methodology	English	2						3	33	17	50	2.00	C			
				Total	12	3	15	0	0	0	18	426	324	750	30.0					
UGIV	Eight/MICROBIOLOGY	1	Bio2-48037	Microbial Genetics	English	2	1	3				3	79	71	150	6.00	C			
		2	Bio2-48038	Virology	English	2	1	3				3	79	71	150	6.00	C			
		3	Bio2-48139	Industrial Microbiology	English	2	1	3				3	79	71	150	6.00	C	Bio2-47033		
		4	Bio2-48140	Fungal Taxonomy	English	2		3				3	78	47	125	5.00	C	Bio2-47034		
		5	Bio2-48041	Molecular biology	English	2		3				3	78	47	125	5.00	C			
		6	Bio2-48142	Research Project	English	2						3	33	17	50	2.00	C	Bio2-47036		
				Total	12	3	15	0	0	0	18	426	324	750	30.0					
					Total	100	24	116	0	0	0	153	3694	2306	6000	240.0	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																	USSWL:	Unstructured SWL
	Tut	Tutorial																		
																				

