

	Republic of Iraq - Ministry of Higher Education and Scientific Research		جمهورية العراق - وزارة التعليم العالي والبحث العلمي		
	University of Mosul		جامعة الموصل		
	Bachelor's degree in Agricultural sciences in forest sciences (First cycle)		بكالوريوس علوم زراعة في علوم الغابات (الدورة الأولى)		
	Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr		أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة اوروبية - كل وحدة اوروبية = ٢٥ ساعة		
	Program Curriculum (2025 - 2026)		المنهاج الدراسي للعام 2026-2025		

Level	Semester	No.	Module Code	Module Name in English	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)							
UGI	One	1	UOM1031	COMPUTER 1	الحاسوب 1	Arabic			3			2	47	28	75	3.00	B	
		2	UOM1040	DEMOCRACY and HUMAN RIGHTS	الديمقراطية وحقوق الانسان	Arabic	2					2	32	18	50	2.00	B	
		3	UOM1021	ENGLISH LANGUAGE 1	اللغة الإنكليزية 1	English	2					2	32	18	50	2.00	B	
		4	MAT1010	MATHEMATICS	رياضيات	Arabic	2				2	3	63	112	175	7.00	S	
		5	ACE1020	AGRICULTURE CAREER ETHICS	اخلاقيات مهنة زراعية	Arabic	2					2	62	63	125	5.00	S	
		6	END1030	ENGINEERING DRAWING	رسم هندسي	Arabic	1			3		3	63	87	150	6.00	S	
		7	AET1040	AGRICULTRAL ENGINEERING TECHNIQUES TRANSFER	نقل تقانات هندسة زراعية	Arabic	2			2		3	63	62	125	5.00	C	
						Total	11	0	3	5	2	2	362	388	750	30.00		
	Two	1	UOM1011	ARABIC LANGUAGE 1	اللغة العربية 1	Arabic	2					2	32	18	50	2.00	B	
		2	BSS1050	BIOSAFETY and SECURITY	سلامة وامن بايلوجي	Arabic	1		2			2	47	28	75	3.00	S	ACE1020
		3	AGS1060	AGRICULTURAL STATISTICS	احصاء زراعي	Arabic	2				3	3	78	47	125	5.00	C	
		4	BIO1070	BIODIVERSITY	تنوع بيولوجي	Arabic	2		2			3	63	62	125	5.00	C	
		5	AGI1080	AGRICULTURAL INFORMATICS	معلوماتية زراعية	Arabic	2		1			3	63	62	125	5.00	C	
		6	SUD1090	SUSTANIBLE DEVELOPMENT	تصمية مستدامة	Arabic	2					2	62	63	125	5.00	C	
		7	AMT1100	AGRICULTURAL MARKETING TECHNIQUES	تقانات تسويق زراعي	Arabic	2					2	32	93	125	5.00	C	
						Total	13	0	5	0	3	3	377	373	750	30.00		
UGII	Three	1	UOM1012	ARABIC LANGUAGE2 2	اللغة العربية 2	Arabic	2					2	32	18	50	2.00	B	UOM1011
		2	UOM2050	CRIMES of the BAATH REGIME in IRAQ	جرائم نظام البعث في العراق	Arabic	2					2	32	18	50	2.00	B	
		3	IPM2110	INTEGRATED PEST MANAGEMENT	ادارة متكاملة للأفات	Arabic	2		2			3	63	62	125	5.00	C	BSS1050
		4	FOM3550	FOREST MENSURATION	قياسات غابات	Arabic	2		2			3	63	87	150	6.00	C	FOI3520
		5	DAE2160	DESIGN AND ANALYSIS of EXPERIMENTS	تصميم وتحليل تجارب	Arabic	2			2		3	63	62	125	5.00	C	AGS1060
		6	APT2140	AGRICULTURAL PRODUCTION TECHNOLOGIES	تكنولوجيا انتاج زراعي	Arabic	2			2		3	63	62	125	5.00	C	
		7	FTP2150	FOOD TECHNOLOGIES and HEALTH AGRICULTRAL PRODUCTS	تكنولوجيا اغذية وصحة منتجات زراعية	Arabic	2		2			3	63	62	125	5.00	C	BSS1050
						Total	14	0	6	4	0	0	379	371	750	30.00		
	Four	1	UOM2022	ENGLISH LANGUAGE2	اللغة الإنكليزية 2	English	2					2	32	18	50	2.00	B	UOM1021
		2	UOM2032	COMPUTER SKILLS2	الحاسوب 2	Arabic			3			2	47	28	75	3.00	B	UOM1031
		3	APT2130	AGRICULTURAL PRODUCTION MECHANIZATION TECHNIQUES	تقانات مكينة انتاج زراعي	Arabic	2			2		3	63	62	125	5.00	C	
		4	FTT3540	FOREST TREES TAXONOMY	تصنيف أشجار غابات	Arabic	2		2			3	63	12	75	3.00	C	BIO1070
		5	PEI2180	BENEFICIAL INSECTS	حشرات نافعة	Arabic	2			2		3	63	62	125	5.00	C	
		6	SWS2190	SOIL and WATER SUITBILITY	ملائمة تربة ومياه	Arabic	2		2			3	63	87	150	6.00	C	APT2130

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	Program Curriculum (2025 - 2026)	المنهاج الدراسي للعام 2026-2025	

Level	Semester	No.	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)		hr/sem	hr/sem	hr/sem			
		7	BIA2200	BIOCHEMICAL ANALYSIS	تحليل كيموحيوي	Arabic	2		2			3	63	87	150	6.00	C	BSS1050
						Total	12	0	9	4	0	19	394	356	750	30.00		
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Module	Prerequisite Module(s)

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Program Curriculum (2025 - 2026)										المنهاج الدراسي للعام 2026-2025													
Level	Semester	No.	Module Code	Module Name in English	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)				
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	hr/sem	hr/sem	hr/sem	ECTS	Type	Code				
	Five	1	PLG3230	PLANT GENETICS	وراثة نبات	Arabic	1				2		3	48	27	75	3.00	C					
		2	FPS3240	FUNDAMENTALS of PLANE SURVEYING	اساسيات مساحة مستوية	Arabic	2			2			3	63	12	75	3.00	S	SWS2190				
		3	FOE3500	FOREST ECONOMIC	اقتصاد غابات	Arabic	2				1		3	48	52	100	4.00	C					
		4	FOS3510	FOREST SYLICULTURE	تنمية غابات	Arabic	2				2		3	63	62	125	5.00	C	APT2140				
		5	FOI3520	FOREST INVESTMENT	استثمار غابات	Arabic	2				2		3	63	62	125	5.00	C	AEM2120				
		6	RES3250	REMOTE SENSING	تحسس نائي	Arabic	2		2				3	63	62	125	5.00	C	SWS2190				
		7	DPF2170	DESIGN and PLANING of AGRICULTURAL FACILITIES	تصميم وتخطيط منشآت زراعية	Arabic	2			2			3	63	62	125	5.00	C	END1030				
							Total	13	0	2	4	7	0	21	411	339	750	30.00					
UGIII	Six	1	AEM2120	AGRICULTRAL ENGINEERING PROJECT MANAGEMENT	ادارة مشاريع هندسية زراعية	Arabic	2			2			3	63	62	125	5.00	C					
		2	FOP3560	FOREST PLANTING	تشجير غابات	Arabic	2			2			3	63	62	125	5.00	C	FTT3540				
		3	WOS3570	WOOD SCIENCE	علوم اخشاب	Arabic	2		2				3	63	62	125	5.00	C					
		4	FTP3580	FOREST TREE PHYSIOLOGY	فسلجة أشجار غابات	Arabic	2		2				3	63	62	125	5.00	C					
		5	WAM3590	WATERSHED MANAGEMENT	إدارة احواض انهر	Arabic	2			2			3	63	37	100	4.00	C					
		6	FON3600	FOREST NURSERIES	مشاتل غابات	Arabic	2			2			3	63	62	125	5.00	C	DPF2170				
		7	SEM3260	SEMINARS	حلقات دراسية	Arabic						1	2	17	8	25	1.00	C					
							Total	12	0	4	8	0	1	20	395	355	750	30.00					
	Seven	1	MIT4270	MODERN IRRIGATION TECHNIQUES	تقانات ري حديثة	Arabic	2			2			3	63	12	75	3.00	C					
		2	FOP4610	FOREST PLANNING	تخطيط غابات	Arabic	2			2			3	63	62	125	5.00	C					
		3	FOM4620	FOREST MAINTENANCE	صيانة غابات	Arabic	2			2			3	63	62	125	5.00	C					
		4	WOI4630	WOOD INDUSTRIES	صناعات خشبية	Arabic	2		2				3	63	62	125	5.00	C	WOS3570				
		5	SIS4640	SILICULTURAL SYSTEMS	نظم تنمية غابات	Arabic	2			2			3	63	62	125	5.00	C	FOS3510				
		6	SEM4280	SOIL ENVIRONMENT METEOROLOGY	بيئة تربة وانواء جوية	Arabic	2		2				3	63	62	125	5.00	C	SWS2190				
		7	AEP4291	AGRICULTRUAL ENGINEERING PROJECT1	مشروع هندسي زراعي1	Arabic				3			2	47	3	50	2.00	C					
							Total	12	0	4	11	0	0	20	425	325	750	30.0					
UGIV	Eight	1	WOP4650	WOOD PRESERVATION	حفظ اخشاب	Arabic	2		2				3	63	12	75	3.00	C	WOS3570				
		2	PTT4300	PLANTS TISSUE CULTURE TECHNIQUES	تقانات زراعة انسجة نباتية	Arabic	2		2				3	63	62	125	5.00	C					
		3	FTB4660	FOREST TREE BREEDING	تربية أشجار غابات	Arabic	2		1	1			3	63	62	125	5.00	C	PLGE311				
		4	FOE4670	FOREST ENGINEERING	هندسة غابات	Arabic	2			2			3	63	62	125	5.00	C	FOP4610				
		5	FOM4680	FOREST MANAGEMENT	إدارة غابات	Arabic	2			2			3	63	62	125	5.00	C	FOS3510				

Note: Columns O, Q and R are programmed, protected and should not be edited

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							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)		hr/sem	hr/sem	hr/sem				
UGI	One	1	UoB12345	Academic English	الانجليزية الأكاديمية	English	2			6		2	114	36	150	6.00	B		
		2	UoB12346	Academic Computing	الحوسبة الأكاديمية	English				4		2	58	42	100	4.00	B		
		3	UoB12347	Kurdistan Studies	دراسات كردستان	Kurdish	3					2	44	56	100	4.00	B		
		4	UoB12348	Medical Physics	الفيزياء الطبية	English	3	3				4	88	37	125	5.00	S		
		5	UoB12349	Introduction to Pharmaceutical Sciences	مقدمة في العلوم الصيدلانية	English	4					2	58	67	125	5.00	C		
		6	UoB12350	Human Biology	علم الأحياء البشري	English	3	3				4	88	62	150	6.00	S		
								15	6	0	10	0	16	450	300	750	30.0		
	Two	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Type	Prerequisite Module(s)
		CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)	hr/sem	hr/sem	hr/sem										
		1	UoB12350	Academic Debate		English	2			4		2	86	14	100	4.00	B		
		2	UoB12351	Pharmaceuticals Calculations		English	4					2	58	42	100	4.00	C		
		3	UoB12352	Medical Terminology		English	3					2	44	56	100	4.00	C		
		4	UoB12353	Human Anatomy		English	2	3				2	72	78	150	6.00	S		
		5	UoB12354	Histology		English	2	3				2	72	78	150	6.00	S		
6	UoB12355	Analytical Chemistry		English	2	3				2	72	78	150	6.00	C				
							15	9	0	4	0	12	404	346	750	30.00			
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Type	Prerequisite Module(s)	
CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem											
UGII	Three	1	UoB12355	Pharmaceutics I (Drops-Injections-Syrup)		English	2	3				4	74	51	125	5.00	C		
		2	UoB12356	Pharmaceuticals Instrumental Analysis		English	2	3				4	74	51	125	5.00	C		
		3	UoB12357	Human Physiology		English	3	3				4	88	37	125	5.00	C		
		4	UoB12358	Organic Chemistry		English	4	3				4	102	98	200	8.00	C		
		5	UoB12359	Physical Pharmacy		English	2	3				4	74	26	100	4.00	S		
		6	UoB12360	Clinical Nutrition and Supplements		English	2					2	30	45	75	3.00	S		
								15	15	0	0	0	22	442	308	750	30.00		
	Four	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Type	Prerequisite Module(s)
		CL (hr/w)	Lect (hr/w)		P (hr/w)	Clin (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem									
		1	UoB12360	Pharmaceutics II (Tablets + Capsules)		English	2	3				4	74	76	150	6.00	C	CUE91021	
		2	UoB12361	Principles of drug Actions		English	3					2	44	56	100	4.00	C		
		3	UoB12362	Pathophysiology		English	2	3				4	74	76	150	6.00	S		
		4	UoB12363	Biochemistry		English	4	4				4	116	84	200	8.00	S		
		5	UoB12364	Microbiology		English	2	3				4	74	26	100	4.00	S		
6	UoB12365	Communication Skills		English	2					2	30	20	50	2.00	S				
							15	13	0	0	0	20	412	338	750	30.00			
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Type	Prerequisite Module(s)	
CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)	hr/sem	hr/sem	hr/sem	hr/sem											

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							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)								
	Five	1	UoB12365	Pharmaceutics III (cream-ointment-suppositories)		English	2	3				4	74	51	125	5.00	C	CUE91021 & CUE9103	
		2	UoB12366	Pharmacology I		English	2	3				4	74	51	125	5.00	C		
		3	UoB12367	Toxicology		English	3	3				4	88	62	150	6.00	C		
		4	UoB12368	Drug Delivery Systems		English	3					2	44	56	100	4.00	C		
		5	UoB12369	Immunology		English	2	3				4	74	26	100	4.00	S		
		6	UoB12370	Medical Bacteriology		English	3	3				4	88	62	150	6.00	S		
								15	15	0	0	0	22	442	308	750	30.00		
UGIII	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Type	Prerequisite Module(s)	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)								
		Six	1	UoB12370	Pharmacology II		English	2	3				4	74	51	125	5.00	C	CUE91042
			2	UoB12371	Pharmacognosy I		English	2	3				4	74	51	125	5.00	C	
			3	UoB12372	Pharmaceutical Chemistry I		English	3	3				4	88	62	150	6.00	C	
			4	UoB12373	Biopharmaceutics and Pharmacokinetics		English	4					2	58	67	125	5.00	C	
			5	UoB12374	Medical Virology		English	2	3				4	74	51	125	5.00	S	
6	UoB12375		Pharmacoeconomics and Marketing		English	3					2	44	56	100	4.00	S			
						16	12	0	0	0	20	412	338	750	30.00				
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	Seven	1	UoB12375	Pharmaceutical Chemistry II		English	4	4				4	116	84	200	8.00	C	CUE91053	
		2	UoB12376	Pharmacognosy II		English	2	3				4	74	51	125	5.00	C	CUE91052	
		3	UoB12377	Clinical Toxicology		English	2	3				4	74	51	125	5.00	C		
		4	UoB12378	Research Methods and Ethics		English	3					2	44	56	100	4.00	S		
		5	UoB12379	Biostatistics		English	3					2	44	56	100	4.00	S		
		6	UoB12380	Pharmacy Ethics and Laws		English	2				2	2	58	42	100	4.00	S		
								16	10	0	0	2	18	410	340	750	30.0		
UGIV	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Type	Prerequisite Module(s)	
							CL (hr/w)	Lect (hr/w)		P (hr/w)	Clin (hr/w)								
	Eight	1	UoB12380	Industrial Pharmacy		English	2	2				4	60	40	100	4.00	C		
		2	UoB12381	Pharmaceutical Biotechnology		English	3					2	44	56	100	4.00	C		
		3	UoB12382	Pharmaceutical Microbiology		English	3					2	44	56	100	4.00	C		
		4	UoB12383	Hematology and Blood Banking		English	2	3				4	74	51	125	5.00	S		
		5	UoB12384	Molecular Biology		English	2	3				4	74	51	125	5.00	S		
6		UoB12385	Clinical Pharmacy and Therapeutics		English	4	4				4	116	84	200	8.00	C			
						16	12	0	0	0	20	412	338	750	30.0				

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Program Curriculum (2023 - 2024)																			
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Type	Prerequisite Module(s)	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)		hr/sem	hr/sem	hr/sem				
Level	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)	Exam hr/sem	SSWL	USSWL	SWL	ECTS	Type	Prerequisite Module(s)	
UGV	Nine	1	UoB12385	Drug Design and Development		English	4					2	58	67	125	5.00	C		
		2	UoB12386	Clinical Biochemistry		English	4				3	4	102	23	125	5.00	C		
		3	UoB12387	Drug Registration and Authorization		English	4					2	58	67	125	5.00	C		
		4	UoB12388	Patient Assessment and Skills		English	3				2	4	74	26	100	4.00	S		
		5	UoB12389	Emergency Medicine		English	2	2				2	58	67	125	5.00	E		
		UoB12390	Electronic Medical Records																
		6	UoB12391	Graduation Project		English				2		2	30	120	150	6.00	C		
							17	2	0	2	5	16	380	370	750	30.0			
	UoB12391																		
	Semester	No.	M Code	Module Title	اسم المادة الدراسية	Language	SSWL (hr/w)					Exam hr/sem	SSWL	USSWL	SWL	ECTS	Type	Prerequisite Module(s)	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	P (hr/w)	Clin (hr/w)		hr/sem	hr/sem	hr/sem				
	Ten	1	UoB12391	Pharmaceuticals Quality Control		English	3					3	4	88	62	150	6.00	C	
		2	UoB12392	Drugs Interactions		English	3						2	44	56	100	4.00	C	
		3	UoB12393	Community Pharmacy (OTC)		English	3					3	4	88	62	150	6.00	C	
		4	UoB12394	Infectious Diseases and Vaccines		English	3						2	44	56	100	4.00	S	
		5	UoB12395	Cosmetics & Aesthetics		English	2	2				4	60	40	100	4.00	E		
		UoB12396	Nuclear Pharmacy																
		6	UoB12391	Graduation Project		English				2		2	30	120	150	6.00	C		
						14	2	0	2	6	18	354	396	750	30.0				
						Total	154	96		18	13	184	4118	3382	7500	300.0			
Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor of Science degree																			
Type	B	Basic learning activities				Note:	Prerequisite modules is fulfilled by attendance (formative assessment), not by passing grade.					Title					No.	%	
	C	Core learning activity										Total ECTS per semester =					30		
	S	Suported or related learning activity										Total ECTS per program =					300		
	E	Elective learning activity										Total SWL hr per program =					810		
hr/w	CL	Class Lecture										ECTS of core modules =						0.0%	
	Lab	Laboratory					SWL:	Student workload					ECTS of supporting modules =						0.0%
	P	Practical Training					SSWL:	Structured SWL					ECTS of basic modules =						0.0%
	Clin	Clinical					USSWL:	Unstructured SWL											
		Lect	Online lecture																