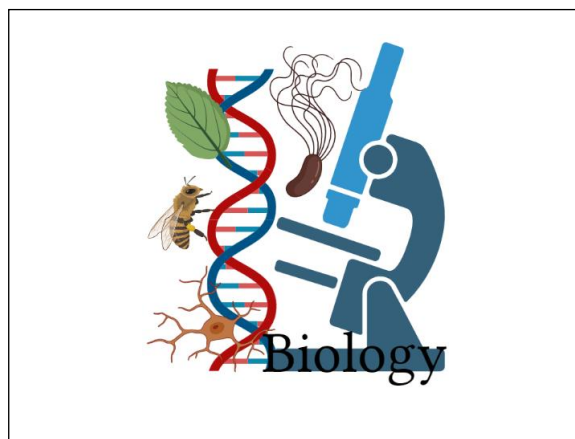




Ministry of Higher education and Scientific Research
UNIVERSITY OF ANBAR
COLLEGE OF EDUCATION FOR PURE SCIENCE
Department of Biology



Department of Biology
CATALOUGE
2021/2022

Prepared by:

Vision

A scientific and educational department that seeks to lead in university education and scientific research locally and globally in a way that contributes to the service of society and achieve sustainable development.

Mission

Excellence in the preparation of educators and researchers knowledgeable and practitioners and professional ethically committed by creating a stimulating environment and associtae to the institutions of society

Programme Educational Objectives (CEOs)

Total credit hours of courses according to the adopted levels

Courses		Levels				Total
		First	Second	Third	Fourth	
University	Compulsory	-	-	-	-	-
	Elective	8	4	2	2	16
Total		8	4	2	2	16
College	Compulsory	4	6	4	8	22
	Elective	-	-	-	-	-
Total		4	6	4	8	22
Department	Compulsory	23	18	25	28	94
	Elective	-	8	6	2	16
Total		23	26	31	30	110
Total		35	36	37	38	148

Graduation Requirements

Requirements	Credit
University Requirements	16
College Requirements	22
Department Requirements	94
Elective Courses	16
Total	148

University Requirements: 13 credit hours

Course code	Course Title	Credit hours	Weekly hours	Prerequisite
UOA140	English Language-I	2	2	
UOA٢40	English Language-II	٢	٢	
UOA٣40	English Language-III	٢	٢	
UOA٤40	English Language-IV	2	2	
UOA135	Human Rights Democracy	٢	٢	
UOA137	Arabic Language	٢	٢	
UOA141	Computer science	٢	٢	
Total		١٤	١٤	

College Requirements: credit hours

Course Code	Course Title	Credit hours	Weekly hours			Prerequisite
			Lec.	Tut.	Lab	
EPS101	Educational Psychology	۲	۲			
EPS102	Fundamentals of Education	۲	۲			
	General Psychology	۲	۲			EHS101
	Educational Administration	۲	۲			EHS1۲۰
	Methods of Scientific Research	۲	۲			
	Curricula and Methodology	۲	۲			
	Educational Counselling and Psychological Health	۲	۲			
	Measurement and Evaluation	۲	۲			
	Teaching Practicum	۲	۲			
	Classroom Observation	۲	۲			
Total		۲۲	۲۲			

Department Requirements: credit hours

Course Code	Course Title	Credit hours	Weekly hours			Prerequisite
			Lec.	Tut.	Lab	
BIO121	Principles of zoology	3	2		2	
BIO122	Cytology 1	2	1		2	
BIO128	Principles of botany	3	2		2	
BIO129	Cytology 2	2	1		2	
Bio235	Invertebrates 1	3	2		2	
Bio236	Histology	3	2		2	
Bio237	Comparative plant anatomy	3	2		2	
Bio238	Algae	3	2		2	
Bio241	Invertebrates 2	3	2		2	
Bio242	Embryology	3	2		2	
Bio244	Archegoniates	3	2		2	
Bio347	Entomology	3	2		2	
Bio348	Comparative anatomy of Chordates	3	2		2	
Bio349	Genetics \	3	2		2	
Bio350	Microbiology	3	2		2	
Bio351	Plant morphology	3	2		2	
Bio352	Microscopic preparation	2	1		2	
Bio354	Applied Entomology	3	2		2	
Bio355	Fungi	3	2		2	
Bio356	Taxonomy	3	2		2	

Bio357	Biotechnology	3	2		2	
Bio358	Animal physiology	3	2		2	
Bio359	Genetics †	3	2		2	
Bio461	Parasitology 1	3	2		2	
Bio462	Applied bacteriology	3	2		2	
Bio463	Plant physiology	3	2		2	
Bio464	Ecology	3	2		2	
Bio465	Molecular biology	3	2		2	
Bio469	Parasitology 2	3	2		2	
Bio470	Environmental pollution	3	2		2	
Bio471	Immunology	3	2		2	
Bio472	Public health	2	2		-	
Bio474	Cellular metabolism	3	2		2	
Bio473	Elective	2	2		-	
Total		98	65		64	

Elective Courses

Course Code	Course Title	Credit hours	Weekly hours			Prerequisite
			Lec.	Tut.	Lab	
CHE111	Analatical chemistry	۲	2		2	
AGES101	Geology	۲	2		-	
CHE121	Organic chemistry	۲	2		2	
Bio239	Research methodology	۲	2		-	
Bio243	Biochemistry	۳	2		2	
Bio245	Biostatistics	۲	2		-	
Total		۱۳	۱۲		6	

Total Credits = 147**Total In-Touch Hours = 222**

FIRST LEVEL

Course code	Course Title	Credit Hours	Weekly hours			Prerequisite
			Lec	Tut.	Lab	
BIO121	Principles of zoology	3	2		2	
BIO122	Cytology 1	2	1		2	
CHE111	Analatical chemistry	2	2		2	
UOA137	Arabic language	2	2		-	
AGES101	Geology	2	2		-	
UOA135	Human rights	1	1		-	
EPS101	Educational Psychology	2	2		-	
BIO128	Principles of plant	3	2		2	
BIO129	Cytology 2	2	1		2	
CHE121	Organic chemistry	2	2		2	
UOA140	English language	2	2		-	
UOA141	Computer	2	2		2	
UOA136	democracy	2	2		-	
EPS102	Bases of education	2	2		-	
Total		٢٩	٢٥		١٤	

SECOND LEVEL

Course code	Course Title	Credit Hours	Weekly hours			Prerequisite
			Lec	Tut.	Lab	
BIO235	Invertebrates 1	3	2		2	
BIO236	Histology	3	2		2	
BIO237	Comparative plant anatomy	3	2		2	
BIO238	Algae	3	2		2	
BIO239	Research methodology	2	2		-	
EPS202	Growth psychology	2	2		-	
UOA140	English language	2	2		-	
BIO241	Invertebrates 2	3	2		2	
BIO242	Embryology	3	2		2	
BIO243	Biochemistry	3	2		2	
BIO244	Archegoniates	3	2		2	
BIO245	Biostatistics	2	2		-	
EPS201	Educational administration	2	2		-	
Total		۳۴	۲۶		۱۶	

THIRD LEVEL

Course code	Course Title	Credit Hours	Weekly hours			Prerequisite
			Lec.	Tut	Lab	
BIO347	Entomology	3	2		2	
BIO348	Comparative anatomy of Chordates	3	2		2	
BIO349	Genetics ١	3	2		2	
BIO350	Microbiology	3	2		2	
BIO351	Plant morphology	3	2		2	
BIO352	Microscopic preparation	2	1		2	
EPS311	Educational curriculum	2	2		-	
BIO354	Applied Entomology	3	2		2	
BIO355	Fungi	3	2		2	
BIO356	Taxonomy	3	2		2	
BIO357	Biotechnology	3	2		2	
BIO358	Animal physiology	3	2		2	
BIO359	Genetics ٢	3	2		2	
EPS312	Counseling and mental health	2	2		-	
UOA140	English language	2	2		-	
Total		٤١	٢٩		٢٤	

FOURTH LEVEL

Course code	Course Title	Credit Hours	Weekly hours			Prerequisite
			Lec	Tut.	Lab	
BIO461	Parasitology 1	3	2		2	
BIO462	Applied bacteriology	3	2		2	
BIO463	Plant physiology	3	2		2	
BIO464	Ecology	3	2		2	
BIO465	Molecular biology	3	2		2	
EPS411	Measurement and evaluation	2	2		-	
EPS412	Classroom viewing	2	2		-	
UOA140	English language	2	2		-	
BIO469	Parasitology 2	3	2		2	
BIO470	Environmental pollution	3	2		2	
BIO471	Immunology	3	2		2	
BIO472	Public health	2	2		-	
BIO474	Cellular metabolism	3	2		2	
BIO473	Elective	2	2		-	
EPS413	practical School application	2	-		4	
EPS414	Research project	3	-		6	
Total		٤٢	٢٨		٢٨	

Curriculum Map of the PEOs with courses according to learning outcomes

Programme Educational Objectives PEOs	1	2	3	4	5	6	7	8	9
FIRST LEVEL									
Course code	Course title								
SECOND LEVEL									
Course code	Course title								
THIRD LEVEL									
Course code	Course title								
FOURTH LEVEL									
Course code	Course title								
Elective Courses									
Course code	Course title								

