

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

Department logo

Department of Biology CATALOUGE 2020/2021

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)

Course Description

Courses are coded as follows:

- 1. Course code and number
- 2. Course title
- 3. Parenthesized numerals, e.g., (4-3-1-3), indicate, in order, the credit hours, the classroom hours (1 hour = 1 credit hour), tutorial hours (credit hour = 0), and the laboratory hours (3 hour = 1 credit hour).

Prerequisites, if any, are indicated at the course description. These have been established to assure an adequate and uniform background for students in advanced classes. Occasionally, students may feel they already have the appropriate background for an advanced course because of previous training, transfer credits, or Credit by examination.

Course Numbering System:

Course code = (for example BIO000 represents one of the course of department requirements in the Biology)

The CODE consists of specifically three to four english letters which represent the course code and three digits refers to the level as following:-

100-199: First level

200-299: Second level

300-399: Third level 400-499: Fourth level

If the course is one of the college requirements then the first three or four letters on the course code represent the college code (for example EPS000 is college requirement in the College of Education for Pure Sciences).

If the course is one of the university requirements then the first three or four letters on the course code represent the college university code (for example UOA000 is university requirement in any college).

Total credit hours of courses according to the adopted levels

Cou	ırses		Level	S		Total	
330	1303	First	Second	Third	Fourth	Total	
University	Compulsory	-	-	-	-	-	
University	Elective	8	4	2	2	16	
To	otal	8	4	2	2	16	
Callaga	Compulsory	4	6	4	8	22	
College	Elective	-	-	-	-	-	
To	otal	4	6	4	8	22	
Donortmont	Compulsory	23	18	25	28	94	
Department	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	
UOA240	English Language-II	2	2	
UOA340	English Language-III	2	2	
UOA440	English Language-IV	2	2	
UOA135	Human Rights Democracy	2	2	
UOA137	Arabic Language	2	2	
UOA141	Computer science	2	2	
	Total	14	14	

College Requirements: credit hours

Course	Course Title	Credit	Wee	kly ho	ours	Drovogujojto
Code	Course Title	hours	Lec.	Tut.	Lab	Prerequisite
EPS101	Educational Psychology	2	2			
EPS102	Fundamentals of Education	2	2			
EPS202	General Psychology	2	2			
EPS201	Educational Administration	2	2			
EPS211	Methods of Scientific Research	2	2			
EPS311	Curricula and Methodology	2	2			
EPS312	Educational Counselling and Psychological Health	2	2			
EPS411	Measurement and Evaluation	2	2			
EPS413	Teaching Practicum	2	2			
EPS414	Classroom Observation	2	2			
		22	22			

Department Requirements: credit hours

0		Cred	Wee	kly ho	ours		
Course Code	Course Title	it hour s	Lec.	Tut.	Lab	Prerequisite	
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		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 1	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		

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BIO358	Animal physiology	3	2	2	
BIO359	Genetics 2	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	Poblic health	2	2	-	
BIO474	Cellular metabolism	3	2	2	
BIO473	Elective	2	2	-	
	Total	98	65	64	

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Elective Courses

Course Code	Course Title	Credit	Wee	kly ho	Prerequisite	
Course Code	Course Title	hours	Lec.	Tut.	Lab	Prerequisite
CHE111	Analatical chemistry	2	2		2	
AGES101	Geology	2	2		-	
CHE121	Organic chemistry	2	2		2	
EPS211	Research methodology	2	2		-	
BIO243	Biochemistry	3	2		2	
BIO245	Biostatistics	2	2		-	
	Total	13	12		6	

Total Credits = 147 Total In-Touch Hours = 222

FIRST LEVEL

Course		Credit	Wee	kly ho	ours	Prerequisi
code	Course Title	Hours	Lec	Tut.	Lab	te
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	
UOA135	democracy	2	2		-	
EPS102	Bases of education	2	2		-	
	Total	29	25		14	

SECOND LEVEL

Course		Credit	Wee	ekly ho	ours	Prerequisi
code	Course Title	Hours	Lec	Tut.	Lab	te
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	34	26		16	

THIRD LEVEL

		Cre	Wee	kly ho	ours	
Course code	Course Title	dit Hou rs	Lec.	Tut	Lab	Prerequisi te
BIO347	Entomology	3	2		2	
BIO348	Comparative anatomy of Chordates	3	2		2	
BIO349	Genetics 1	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 2	3	2		2	
EPS312	Counseling and mental health	2	2		-	
UOA140	English language	2	2		-	
	Total	41	29		24	

FOURTH LEVEL

Course		Credit	Wee	ekly ho	ours	Prerequisi
code	Course Title	Hours	Lec	Tut.	Lab	te
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	Poblic 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	42	28		28	

Curriculum Map of the PEOs with courses according to learning outcomes

Programme Educat	ional Objectives PEOs	1	2	3	4	5	6	7	8	9
		FIRST	LEVE	EL						
Course code	Course title									
		SECON	ID LE	/EL						
Course code	Course title									
		THIRE	LEVI	EL			•	•	•	
Course code	Course title									
		FOURT	H LE	/EL					•	
Course code	Course title									
		le eth c	. Carr							
Course		Elective	Coul	ses						
Course code	Course title									<u> </u>

UNIVERSITY REQUIREMENT COURSES OR College REQUIREMENT COURSES OR **Department REQUIREMENT COURSES**

Course cod	de (for example MECE110) – Course title (for example English Language I)
(number of	f: Credit units-Lecture hours-Tutorial hours-lab hours (for example
3-3-0-0)	

3-3-0-0))	
- Course Definition	
- Course Topics	
- Course Description	
- Course Outcomes	
- Recommended Textbook(s):	
- Prerequisites:	

- Lab. Topics

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