

**Department of Biology**  
**Academic Course Description**  
**General Biology Branch**

First year							
First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Analytical Chemistry	2	2	3	Geology	2	2	3
Biophysics	2	2	3	General Botany	2	2	3
General Zoology	2	2	3	English Language	2	-	2
Computer science 1	-	2	1	Organic Chemistry	2	2	3
General Mathematics	2	-	2	Computer science 2	-	2	1
Human Rights	1	-	1	Biostatistics	2	-----	2
Arabic Language	2	-	2	Liberty and Democracy	1	-----	2
Safety and biosecurity	1		1				

**Second year**

**First semester**

**Second semester**

Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Invertebrate	3	2	4	Mycology	2	2	3
Bacteriology	2	2	3	Flowering plant Taxonomy	3	2	4
Ecology	2	2	3	Entomology	3	2	4
Phycology	2	2	3	Archegoniate	2	2	3
Women and Law	1	---	1	Cell Biology	2	2	3
Biochemistry	2	2	3	Civil leaderships	1	---	1
Computer science 3	-	2	1	English Language	2	-	2
				Computer science 4	-	2	1

Third year							
First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Plant physiology	3	2	4	Animal physiology	3	2	4
Environmental pollution	2	2	3	Metabolism	2	2	3
Genetics	2	2	3	Protozoology	3	2	4
Histology	2	2	3	Elective subject 1	2	2	3
English Language	2	-	2	Elective subject 2	2	2	3
Elective subject 1	2	2	3				
Elective subject 2	2	2	3				
Fundamentals of science research	1	----	1				

Third years Elective Subject	
First semester	Second semester
Subject	Subject
Pathogenic Microorganisms	Medical Parasitology
Micro technique	Aquatic Ecology
Plant Tissue Culture	Environmental Toxicology
Animal Tissue Culture	Food Microbiology
Environmental Management	Antibiotics
Medical Entomology	Climate Changes

Fourth year							
First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Development Biology	3	2	4	Comparative Anatomy	3	2	4
Biotechnology	2	2	3	Virology	2	2	3
Immunology	2	2	3	Biodiversity	2	2	3
English Language	2	-	2	Elective subject 1	2	2	3
Elective subject 1	2	2	3	Elective subject 2	2	2	3
Elective subject 2	2	2	3	Research Project	2	-	2

Fourth years Elective Subject	
First semester	Second semester
Subject	Subject
Antibiotics	Medical Laboratory
Environmental Technology	Nanotechnology
Medical Genetics	Bio extracts
Protective Area Management	Nanotechnology
Animal Ecology	Plant Ecology
Medical Genetics	Sera and Vaccines