

Courses contributing to the program.

Foundation Year (Level One) Biology Section

Level 1, Semester 1		Course Title	Hours Lec.	Prac.	Cred
Code	Pre-request	Obligatory:			
BO1101	-----	General Botany (1)	2	3	3
ZO1101	-----	General Zoology (1)	2	3	3
CH1101	-----	General Chemistry (1)	2	3	3
MA1121	-----	Mathematics I	1	2(tu)	2
PH1123	-----	General Physics (1)	1	2	2
UN1101		Scientific English	2	-	2
Options: Select Two Credits <u>hours</u> from the following modules :					
GE1121	-----	General Geology (1)	1	2	2
EN 1101	-----	Introduction to Entomology (1)	1	3	2
PH1103	-----	Biophysics (1)	1	3	2
Options: Select <u>one (1)</u> Credit from the following modules					
UN1103		تاريخ وفلسفة العلوم	1	-	1
UN1105		مبادئ الإدارة والقيادة	1		1
UN1107	-----	التقافة البيئية	1	-	1
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Level 1, Semester 2		Course Title	Hours Lec.	Prac.	Cred
Code	Pre-request	Obligatory	Hours		
BO1202	BO1101	General Botany (2)	2	3	3
ZO1202	ZO1101	General Zoology (2)	2	3	3
CH1202	CH1101	General Chemistry (2)	2	3	3

MA1222	MA1121	Mathematics (2)	1	2(tu)	2
PH1224	PH1123	General Physics (2)	1	2	2
UN1202		اللغة العربية	2	-	2
Options : Select <u>Two</u> Credits hours from the following modules:					
GE 1222	GE 1121	General Geology (2)	1	2	2
EN 1204	EN 1101	Introduction to Entomology (2)	1	3	2
PH 1204	PH 1123	Biophysics (2)	1	3	2
Options: Select <u>one</u> Credit hour from the following modules:					
UN1204	-----	التفكير النقدي	1	-	1
UN1206	-----	الثقافة الإسلامية	1	-	1
UN1208	-----	التعليم الذاتي	1	-	1
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Level Two (Zoology)

Level 2 Semester 1		Course Title	Lec.	Prac.	Cred
Code	Pre-request	Obligatory:	Hours		
ZO 2101	ZO 1101	Cell Biology & Genetics	2	2	3
ZO 2103	ZO 1202	Invertebrate Systematic	2	2	3
ZO 2105	ZO 1202	Entomology	2	2	3
ZO 2107	ZO1101	Ecological adaptation	2	2	3
		Options: Select Six Credits from the following modules			
ZO 2109	ZO1101	Fauna of Egypt	1	2	2
ZO 2111	ZO 1101	Animal biotechnology	1	2	2
ZO 2113	ZO1101	Zoogeography	1	2	2
CH2105	CH1202	Principles of Analytical Chemistry	1	3	2
CH2107	CH1202	Chemistry of Main Elements	2	-	2

CH2141	CH1202	Chemical Thermodynamics	2	-	2
CH2143	CH1202	Principles of Organic Chemistry (1)	1	3	2
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Level 2 Semester 2		Course Title	Lec.	Prac.	Cred
Code	Preq	Obligatory:	Hours		
ZO 2202	ZO 1202	Chordates	2	2	3
ZO 2204	ZO 1202	Invertebrate Biology	2	2	3
ZO 2206	ZO 1202	Protozoology	2	2	3
ZO 2208	ZO1202	Biological Associations	1	2	2
TS2216		Transferable Skills		2	1
		Options: Select Six Credits from the following modules			
CH2274	CH2143	Principles of Organic Chemistry (2)	2	2	2
ZO 2210	ZO2101	Molecular Biology	1	2	2
ZO 2212	ZO 2107	Community Ecology	1	2	2
ZO 2214	ZO 1101	Immunology	1	2	2
ZO 2216	ZO1202	Medically Important Animals and human health	1	2	2
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Level Three (Zoology)

Level 3, Semester 1		Course Title	Lec.	Prac.	Cred
Code	Pre-request	Obligatory:	Hours		
ZO 3101	ZO 2202	Embryology & Experimental Embryology	2	2	3
ZO 3103	ZO 2103	Invertebrates of Egypt	2	2	3
ZO 3105	ZO 2101	Functional Histology	2	2	3

ZO 3107	ZO 2101	Animal techniques	2	2	3
		Options: Select Six Credits from the following modules			
CH3171	CH2105	Instrumental Analysis (1)	1	3	2
CH3173	CH2274	Organic Chemistry (3)	1	3	2
ZO 3109	ZO 2202	Fish Biology and Fisheries	1	2	2
ZO 3111	ZO 2204	Field trips	1	2	2
ZO 3113	ZO 2204	Aquaculture	1	2	2
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Level 3, Semester 2		Course Title	Lec.	Prac.	Cred
Code	Pre-request	Obligatory:	Hours		
ZO 3202	ZO1202	Parasitology	2	2	3
ZO 3204	ZO1101	Physiology 1	2	2	3
ZO 3206	ZO1101	Animal Ecology & Behavior	2	2	3
ZO 3208	ZO 2214	Immunology of Parasites & control	1	2	2
		Options: Select Six Credits from the following modules			
CH3274	CH3173	Chemistry of Heterocyclic compounds	1	3	2
CH3278	CH3171	Laser Chemistry	1	-	1
CH3280	CH2107	Transition metal	1	-	1
CH3250	CH2143	Nature Products	1	-	1
ST3202	-----	Biostatistics	1	-	1
ZO 3210	ZO 2204	Invertebrate Pathology	1	2	2
ZO 3212	ZO 3101	Molecular Embryology	1	2	2
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Level Four (Zoology)

Level 4 Semester 1		Course Title	Lec.	Prac.	Cred
Code	Pre-request	Obligatory:	Hours		
ZO 4101	ZO 3105	Histochemistry	2	2	3
ZO 4103	ZO 3204	Physiology 2	2	2	3
ZO 4105	ZO 3202	Epidemiology & Clinical Parasitology	1	2	2
ZO 4107		Scientific writing and presentations	1	2	2
CH4173	CH1202	Biochemistry (1)	1	3	2
		Options: Select Six Credits from the following modules			
CH4119	CH1202	Chemistry of Pesticides	1		1
CH4127	CH2105	Water treatment	1	-	1
ZO 4109	ZO 3202	Molecular Parasitology	1	2	2
ZO 4111	ZO 3103	Biodiversity and conservation	1	2	2
ZO 4113	ZO 3105	Histopathology	1	2	2
ZO 4115	ZO 3206	Ecological Pollution	1	2	2
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Level 4 Semester 2		Course Title	Lec.	Prac.	Cred
Code	Pre-request	Obligatory:	Hours		
ZO 4202	ZO 3101	Comparative Anatomy of Vertebrates	2	2	3
ZO 4204	ZO 4103	Physiology 3	2	2	3
ZO 4206	ZO 3206	Aquatic Biology	2	2	3
ZO 4208	ZO 4107	Essay or Research project (Zoology)		6	2
		Options: Select Six Credits from the following modules			
ZO 4210	ZO 3107	Biological assays	1	2	2

ZO 4212	ZO 4103	Toxicology	1	2	2
ZO 4214	ZO 2103	Molecular Systematic	1	2	2
ZO 4216	ZO 2202	Human Biology	1	2	2
CH4274	CH4173	Biochemistry (2)	1	3	2
CH4224	-----	Environmental Chemistry	1	-	1
CH4232		Solution Chemistry	1	-	1
CH4244	CH2143	Polymer Chemistry	1	-	1
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