

Second year		Fourth Level			
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
BIOL204	General Biology	4.5	3	6	-
STAT211	Applied Statistics	3	3	4.5	-
ENGL210	English for Scientific Communication	4.5	0	4.5	-
<b>Total Units</b>		15			

Fifth Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
CHEM203	General Chemistry I	4.5	3	6	-
BIOL206	Cell Biology	3	3	4.5	BIOL204
BIOL207	Basics of Ecology	3	3	4.5	BIOL204
<b>Total Units</b>		15			

Sixth Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
MATH201	Calculus I	6	0	6	-
PHYS202	Physics I	4.5	3	6	-
CHEM212	Organic Chemistry	3	3	4.5	CHEM203
<b>Total Units</b>		16.5			

Third year		Seventh Level			
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
ZOOL301	Biology Vertebrates	3	3	4.5	BIOL204
GENTC304	Principles of Genetics	3	3	4.5	BIOL206
BOTNY303	Plant Morphogenesis	3	3	4.5	BIOL206
BIOCH308	Biochemistry	3	3	4.5	CHEM212
<b>Total Units</b>		18			

Eighth Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
ZOOL302	General Entomology	3	3	4.5	BIOL204
BOTNY306	Plant Physiology	3	3	4.5	BIOCH308
COMP209	Introduction to Programming	3	3	4.5	-
<b>Total Units</b>		13.5			

Ninth Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
ZOOL305	Animal Physiology	3	3	4.5	ZOOL301
MICRO307	Microbiology	3	3	4.5	BIOL204
GENTC308	Molecular Biology	3	3	4.5	BIOCH308-GENTC304
<b>Total Units</b>		13.5			

شروط التخصيص بالمسارات اجتياز 120 ساعة معتمدة

	University Requirement		Track Requirement
	College Requirement		Elective Requirement
	Program Requirement		Summer training

Fourth year		Tenth Level			
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
PARA412	Foundations of Parasitology	3	3	4.5	ZOOL302
BIOL 411	Ecosystem of Arab Gulf	3	3	4.5	BIOL207
BIOL405	Endocrinology	1.5	3	3	ZOOL305
ISLM271	Islamic Creed	3	0	3	-
<b>Total Units</b>		15			

Eleventh Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
BOTNY417	Plant Taxonomy	3	3	4.5	BOTNY303
BIOL 408	Population Ecology	3	3	4.5	BIOL207
ENGL 381	Oral Skills for Scientific English	4.5	0	4.5	-
<b>Total Units</b>		13.5			

Twelfth Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
401 BIOL	Bioinformatics	1.5	3	3	GENTC308- STAT211
BOTNY415	Plant Stress	3	3	4.5	BOTNY306
BIOL 425	Desert Ecology	3	3	4.5	BIOL207
BIOL421	Environmental Impact Assessment	3	0	3	BIOL408
ISLM272	Social system in Islam	3	0	3	-
<b>Total Units</b>		18			

summer Training BIOL 426 3 Cr. Recement: Pass 150 Cr.

Fifth year		Thirteenth Level			
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
414 BIOL	Environmental Toxicology	3	3	4.5	BIOL207
BIOL 506	Introduction to Environment Remote sensing	1.5	3	3	-
ZOOL 507	Fisheries & Aquaculture	3	3	4.5	BIOL 411
ISLM273	Economic system in Islam	3	0	3	-
<b>Total Units</b>		15			

Fourteenth Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
MICRO 413	Microbiology of petroleum and minerals	3	0	3	MICRO 307
BIOL 504	Graduation Research Project	3	0	3	Pass level 12
XXX	Elective from list A	3-1.5 Or 3	0-3 Or 3	3-4.5	-
XXX	Elective from list A	3-2	0-2	3	-
XXX	Elective from list A	3-2	0-2	3	-
<b>Total Units</b>		15 – 16.5			

Fifteenth Level					
Course No.	Course Name	Lec	Lab	Cr. Hr.	Pre-request
ZOOL 503	Animal Behavior	3	0	3	ZOOL305
XXX	Elective from list B	3-1.5	0-3	3	-
XXX	Elective from list B	3-1.5	0-3	3	-
XXX	Elective from list B	3-1.5	0-3	3	-
ISLM274	Political system in Islam	3	0	3	-
<b>Total Units</b>		15			

	University Requirement		Track Requirement
	College Requirement		Elective Requirement
	Program Requirement		Summer training

Program Name: Biology TRACK Name: Environmental Sciences Program year: (2016)

The student must pass minimum of (2) elective courses from list A with 9 credit hours,

And (3) elective courses from list B with 9 credit hours

Elective Courses (List A)						
Course No.	Course Name	Lec	Lab	Cr. Hr	Study Levels	Pre-request
BIOL551	Biogeography	3	0	3	14 <sup>th</sup>	-
BIOL402	Developmental Biology	3	3	4,5	14 <sup>th</sup>	ZOOL301
MICRO404	Microbial Diversity	3	3	4.5	14 <sup>th</sup>	MICRO307
BIOL406	Forensic Biology	3	3	4.5	14 <sup>th</sup>	ZOOL302-MICRO307
BIOL455	Biomimicry	3	0	3	14 <sup>th</sup>	-
BOTNY556	Flora of Saudi Arabia	1.5	3	3	14 <sup>th</sup>	-
CHEM516	Bioanalytical Chemistry	1.5	3	3	14 <sup>th</sup>	CHEM203
Elective Courses (List B)						
BIOL501	Microtechniques	1.5	3	3	15 <sup>th</sup>	BIOL 206
BIOL564	Bioremediation of pollutants	3	0	3	15 <sup>th</sup>	CHEM212-MICRO307
BIOL561	Environmental Economics	3	0	3	15 <sup>th</sup>	-
BOTNY558	Biology of Palm Tree	3	0	3	15 <sup>th</sup>	-
BIOL 563	Water Quality & Sanitation	1.5	3	3	15 <sup>th</sup>	MICRO307

	University Requirement		Track Requirement
	College Requirement		Elective Requirement
	Program Requirement		Summer training