

**Degree Plan for B. Ed. in Biology with minor in:**

**(A) Chemistry =12**

**or (B) Statistics =13**

**or (C) Computer Sciences =13**

**or (D) Biotechnology =12**

<b>Minimum No. of Credits for this degree plan = 135</b>		
<b>Course Title</b>	<b>No. of Credits</b>	<b>Pre-requisites</b>
<b>University Requirements = 24 Credits</b>		
ARAB100 Arabic Language I	3	
ARAB101 Arabic Language II	3	ARAB100
COMP101 Computer Skills	3	
ENGL150 English Language I	3	
ENGL152 English Language II	3	ENGL150
ENGL155 Communication Skills	3	
HIST150 Islamic Civilization	3	
MNGT100 Entrepreneurship Creativity And Innovation	3	
<b>University Electives = 3 Credits</b>		
<b>Student shall choose from available courses offered by all Colleges of the University</b>		
<b>College Requirements = 16 Credits</b>		
BIOL101 General Biology I	4	
CHEM101 General Chemistry I	4	
MATH 116 Precalculus	4	
PHYS101 General Physics I	4	MATH116
<b>College Electives = 4 Credits</b>		
<b>Student shall choose from the courses offered by the Departments of the College</b>		
<b>(Students with minor in statistics must take STAT321 as one of their electives</b>		
<b>(Students with minor in computer sciences must take MATH211 as one of their electives)</b>		
<b>Major Requirements = 46 credits</b>		
BIOL102 General Biology II	4	BIOL101
BIOL211 Plant Physiology	3	BIOL102
BIOL220 Animal Physiology	3	BIOL102
BIOL242 Introductory Genetics	3	BIOL101
BIOL344 Introductory Microbiology	3	BIOL102
<b>BIOL321 Zoology</b>	<b>3</b>	<b>BIOL102</b>
BIOL150 Botany	4	BIOL101

CHEM334 Biochemistry	3	BIOL101, CHEM265
BIOL341 Practical Techniques in Biology	3	BIOL102
BIOL350 Cell Biology	3	CHEM334
CHEM 102 General Chemistry II	4	CHEM101
CHEM 265 Organic Chemistry I	4	CHEM101
BIOL499 Graduation Project	6	BIOL410, BIOL425

Course Title	No. of Credits	Pre-requisites
<b>(B) Minor in Chemistry =12</b>		
CHEM 211 Inorganic Chemistry I	4	CHEM102
CHEM 241 Analytical Chemistry I	4	CHEM102
CHEM275 Organic Chemistry II	4	CHEM102
<b>(B) Minor in Statistics =13</b>		
STAT101 Introduction to Statistics	4	
STAT212 Sampling Techniques	3	STAT101
STAT266 Computational Techniques in Statistics	3	
STAT352 Demographics and Health care statistics	3	STAT101
<b>(C) Minor in Computer Sciences =13</b>		
COMP151 Introduction to Algorithm	4	COMP101
COMP222 Object Oriented Programming	3	COMP151
COMP244 Data Base Concepts and Application	3	COMP151
COMP270 Web Development	3	COMP151
<b>(D) Minor in Biotechnology =12</b>		
BIOL425 Molecular Biology	3	BIOL242
BIOL345 Introduction to Biotechnology	3	BIOL242, BIOL344
BIOL364 Mycology	3	BIOL344
BIOL410 Microbial Biotechnology	3	BIOL345
<b>Education Requirement = 30 credits</b>		
EDUC113 Foundation of Education	3	اصول التربية
EDUC103 Educational Psychology	3	علم النفس التربوي
EDUC200 Curriculum and Instruction	3	المناهج والتدريس
EDUC301 Methods of Teaching	3	طرق التدريس
	3	القياس النفسي والتقويم التربوي

EDUC400	Psychological Measurement and Educational Evaluation		
EDUC302	التوجيه والإرشاد المدرسي Guidance and School Counseling	3	
EDUC402	التربية العملية Practical Education	6	EDUC301
EDUC202	تكنولوجيا التعليم Technology of Teaching	3	COMP101
EDUC204	نظام التعليم وإدارته في دول الخليج العربي Systems of Education and its administration in the Arab Gulf State	3	