

Degree Plan for B.Ed. in Biology

Minimum No. of Credits for this Degree Plan = 135					
University Requirements = 24 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites
			Theory	Practical	Co-requisites
ARAB100	Arabic Language I	3	3	0	
ARAB101	Arabic Language II	3	3	0	ARAB100
COMP101/L	Computer Skills	3	2	2	COMP-A,COMP-B, Digital Literacy
ENGL150	English Language I	3	3	0	
ENGL152	English Language II	3	3	0	ENGL150
ENGL155	Communication Skills	3	3	0	ENGL152
HIST150	Islamic Civilization	3	3	0	
MNGT100	Entrepreneurship: Creativity and Innovation	3	3	0	
University Electives = 3 Credits					
Student shall choose from available courses offered by all Colleges of the University					
College Requirements = 16 Credits					
BIOL101/L	General Biology I	4	3	2	
CHEM101/L	General Chemistry I	4	3	2	
MATH116	Pre-Calculus	4	3	2	
PHYS101/L	General Physics I	4	3	2	MATH116
College Electives = 4 Credits					
Student shall choose from the courses offered by the Departments of the College					
(Students with minor in statistics must take STAT321 as one of their electives)					
(Students with minor in computer sciences must take MATH211 as one of their electives)					
Major Requirements = 43 credits					
BIOL102/L	General Biology II	4	3	2	BIOL101/L
BIOL150/L	BOTANY	4	3	2	BIOL101/L
BIOL211/L	Plant Physiology	3	2	2	BIOL102/L
BIOL220/L	Animal Physiology	3	2	2	BIOL102/L
BIOL221/L	Invertebrates I	3	2	2	BIOL102/L
BIOL242/L	Introductory Genetics	3	2	2	BIOL101/L
BIOL321/L	Vertebrate Zoology	3	2	2	BIOL102/L

Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites
			Theory	Practical	Co-requisites
BIOL341/L	Practical Techniques in Biology	3	2	2	BIOL102/L
BIOL344/L	Introductory Microbiology	3	2	2	BIOL102/L
BIOL350/L	Cell Biology	3	2	2	CHEM334/L
CHEM102/L	General Chemistry II	4	3	2	CHEM101/L
CHEM265/L	Organic Chemistry	4	3	2	CHEM101/L
CHEM334/L	Biochemistry	3	2	2	BIOL101/L, CHEM265/L
(A) Minor in Chemistry =15					
CHEM211/L	Inorganic Chemistry	4	3	2	CHEM102/L
CHEM241/L	Analytical Chemistry I	4	3	2	CHEM102/L
CHEM275/L	Organic Chemistry II	4	3	2	CHEM102/L
CHEM281/L	Chemistry for Teachers	3	3	0	CHEM241/L
(B) Minor in Statistics =16					
STAT101	Introduction to Statistics	4	3	2	
STAT212	Sampling Techniques	3	2	2	STAT101
STAT266	Computational Techniques in Statistics	3	2	2	
STAT290	Statistical Methods	3	2	2	STAT101
STAT352	Demographics and Health care statistics	3	3	0	STAT101
(C) Minor in Computer Sciences =16					
COMP151/L	Introduction to Algorithm and Programming	4	3	2	COMP101/L
COMP233/L	Computer Architecture and Assembly Language	3	3	2	COMP151/L
COMP244/L	Data Base Concepts and Application	3	3	2	Co-requisite COMP233/L

Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites
			Theory	Practical	Co-requisites
COMP277/L	Networks and Communication	3	2	2	COMP101/L
COMP466	Societal Issues in Computing	2	1	2	COMP101/L
(D) Minor in Biotechnology =15					
BIOL327/L	Virology	3	2	2	BIOL344/L
BIOL345/L	Introduction to Biotechnology	3	2	2	BIOL242, BIOL344
BIOL364/L	Mycology	3	2	2	BIOL344/L
BIOL410/L	Microbial Biotechnology	3	2	2	BIOL345/L
BIOL425/L	Molecular Biology	3	2	2	BIOL242/L
Education Requirement = 30 credits					
EDUC103	Educational Psychology	3	3	0	
EDUC113	Foundation of Education	3	3	0	
EDUC200	Curriculum and Instruction	3	3	0	EDUC103
EDUC202	Technology of Teaching	3	2	2	COMP101/L
EDUC301	Methods of Teaching	3	2	2	EDUC200
EDUC302	Guidance and School Counseling	3	3	0	
EDUC400	Psychological Measurement and Educational Evaluation	3	2	2	
EDUC402	Practical Education	6	0	12	EDUC301