

Degree Plan for B.Ed. in Chemistry

Minimum No. of Credits for the 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 Electives = 5 Credits					
College Requirements = 12 Credits					
BIOL101/L	General Biology I	4	3	2	
CHEM101/L	General Chemistry I	4	3	2	
MATH116	Pre-calculus	4	3	2	
Major Requirements = 45 Credits					
CHEM102/L	General Chemistry II	4	3	2	CHEM101/L
CHEM211/L	Inorganic Chemistry I	4	3	2	CHEM102/L
CHEM241/L	Analytical Chemistry I	4	3	2	CHEM102/L
CHEM243	Special Topics	2	2	0	CHEM241/L
CHEM251/L	Inorganic Chemistry II	4	3	2	CHEM211/L
CHEM255/L	Physical Chemistry I	3	2	2	CHEM102/L
CHEM265/L	Organic Chemistry I	4	3	2	CHEM102/L
CHEM275/L	Organic Chemistry II	4	3	2	CHEM265/L
CHEM327	Industrial Chemistry	3	3	2	CHEM275/L
CHEM332/L	Physical Chemistry II	3	2	2	CHEM255/L, PHYS101/L
CHEM341/L	Analytical Chemistry II	3	2	2	CHEM241/L
CHEM398	Petroleum Chemistry	3	3	0	CHEM275/L
PHYS101/L	General Physics I	4	3	2	MATH116

(A) Minor in Biology = 16 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites
			Theory	Practical	Co-requisites
BIOL102/L	General Biology II	4	3	2	BIOL101/L
BIOL211/L	Plant Physiology	3	2	2	BIOL102/L
BIOL220/L	Animal Physiology	3	2	2	BIOL102/L
BIOL244/L	Introductory Microbiology	3	2	2	BIOL102/L
CHEM334	Biochemistry	3	2	2	BIOL102,CHEM265
(B) Minor in Statistics = 16 Credits					
STAT101	Introduction to Statistics	4	3	2	
STAT212	Sampling Techniques	3	2	2	STAT101
STAT266/L	Computational Techniques in Statistics	3	2	2	
STAT352	Demographics & Health Care Statistics	3	3	0	STAT101
STAT290	Statistical Methods	3	2	2	STAT101
(C) Minor in Physics = 15 Credits					
PHYS150/L	General Physics II	3	2	2	PHYS101/L
PHYS205/L	Experimental Methods in Physics	3	2	2	PHYS150/L
PHYS225	Physics for Teachers I	3	3	0	PHYS150/L
PHYS227	Physics for Teachers II	3	3	0	PHYS225
PHYS256	Electromagnetism and applications	3	3	0	PHYS150/L, MATH212
(D) Minor in Computer Sciences = 17 Credits					
COMP151/L	Introduction To Algorithm	4	3	2	COMP101/L
COMP210/L	Introduction to Computer Programming	4	3	2	COMP101/L
COMP233/L	Computer Architecture Assembly Language	3	2	2	COMP151/L
COMP244/L	Data Base Concepts and Applications	3	2	2	
COMP277/L	Networks and Communication	3	2	2	COMP101/L

Education Requirement = 30 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites
			Theory	Practical	Co-requisites
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