

Degree Plan for B.Sc. in Chemistry

Minimum No. of Credits for the Degree Plan = 136					
University Requirements = 24 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/ Co-requisites
			Theory	Practical	
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 = 8 Credits					
Student shall choose from the following courses:					
COMP151/L	Introduction to Algorithms	4	3	2	COMP101/L
ERSC101	Introduction to Geology I	4	3	2	CHEM101/L
MATH211	Calculus I	4	3	2	MATH116
STAT101	Introduction to Statistics I	4	3	2	
Department Requirements = 55 credits					
CHEM102/L	General Chemistry II	4	3	2	CHEM101/L
CHEM211/L	Inorganic Chemistry I	4	3	2	CHEM102/L

Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/ Co-requisites
			Theory	Practical	
CHEM241/L	Analytical Chemistry I	4	3	2	CHEM102/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
CHEM325/L	Organic Chemistry Laboratory	3	0	6	CHEM275/L
CHEM327	Industrial Chemistry	3	3	0	CHEM241/L,
CHEM332/L	Physical Chemistry II	3	2	2	PHYS101/L, CHEM255/L
CHEM334/L	Biochemistry	3	2	2	BIOL101/L
CHEM339	Research Methodology in Chemistry	2	2	0	STAT101, MATH116
CHEM341/L	Analytical Chemistry II	3	2	2	CHEM241/L
CHEM342/L	Instrumental Chemical Analysis	3	2	2	CHEM341/L
CHEM488	Computers in Chemistry	1	1	1	CHEM342/L, COMP101/L
CHEM490/L	Advance Laboratory	3	2	2	CHEM488, CHEM342/L
CHEM499/L	Chemistry Project	4	4	0	CHEM339
Department Electives = 30 credits					
Student shall choose from available courses offered by the Department					
CHEM243	Special Topics	2	2	0	CHEM241/L
CHEM280	Edible Oil Chemistry	3	3	0	CHEM275/L
CHEM281	Chemistry for Teachers	3	3	0	CHEM241/L
CHEM350	Environmental Chemistry	3	3	0	CHEM325/L
CHEM395/L	Food Chemistry I	3	2	2	CHEM275/L, CHEM334/L
CHEM396	Nuclear Chemistry	3	3	0	CHEM251/L
CHEM398	Petroleum Chemistry	3	3	0	CHEM275/L

Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/
			Theory	Practical	Co-requisites
CHEM399	Polymer Chemistry	3	3	0	CHEM325/L
CHEM407/L	Food Chemistry II	3	2	2	CHEM395/L
CHEM422	Identification of Organic Compounds	3	3	0	CHEM325/L
CHEM432	Biophysical Chemistry	3	3	0	CHEM334/L Corequisite:CHEM332/L
CHEM435	Physical Chemistry Laboratory	3	2	4	CHEM332/L
CHEM440	Marine Chemistry	3	3	0	CHEM341/L, CHEM334/L
CHEM445	Chemistry of Natural Products	3	3	0	CHEM332/L, CHEM334/L
CHEM460	Chemistry of Cosmetics	3	3	0	CHEM325/L, CHEM334/L
CHEM470	Clinical Chemistry	3	3	0	CHEM334/L
CHEM475	Chemistry of Forensic Science	3	3	0	CHEM342/L