

Study Plan Guide for the Bachelor Degree in Chemistry

First Year				
First Term				
Course No.	Course Title	Hrs.	Corequisite	
11011101	General Chemistry (1)	3	-	
11031101	Calculus (1)	3	-	
11021101	General Physics (1)	3	-	
11011103	General Chemistry Laboratory (1)	1	11011101 Sim	
-	University Elective Requirement	3	-	
-	University Elective Requirement	3	-	
	Total	16		
Second Term				
Course No.	Course Title	Hrs.	Prerequisite	Corequisite
11011202	General Chemistry (2)	3	11011101	-
11011204	General Chemistry Laboratory (2)	1	11011103	11011202
11031202	Calculus (2)	3	1102181	-
11021202	General Physics (2)	3	1102101	-
11021103	General Physics Laboratory (1)	1	11021101	11021101
-	University Compulsory Requirement	3	-	-
-	University Elective Requirement	3	-	-
	Total	17		

Second Year				
First Term				
Course No.	Course Title	Hrs.	Prerequisite	Corequisite
11012111	Organic Chemistry (1)	3	11011202	
11012121	Inorganic Chemistry (1)	3	11011202	
11012131	Analytical Chemistry	3	11011202	
11012132	Analytical Chemistry Laboratory	1	11011204	11012131
11011281	General Biology	3	-	
	University Compulsory Requirement	3		
	Total	16		
Second Term				
Course No.	Course Title	Hrs.	Prerequisite	Corequisite
11032164	Ordinary Differential Equations (1)	3	11031202	
11012212	Organic Chemistry (2)	3	11012111	
11012213	Organic Chemistry Laboratory	2	11011204	11012212
11012241	Physical Chemistry (1)	3	11011202	11032164
11012242	Physical Chemistry Laboratory (1)	2	11011204	11012241
06051211	Basic of programming	3	01100051	
	Total	16		

Third Year				
First Term				
Course No.	Course Title	Hrs.	Prerequisite	Corequisite
11012222	Inorganic Chemistry (2)	3	11012121	
11012223	Inorganic Chemistry Laboratory	3	11011204	11012222
11013214	Systematic Identification of Organic Compounds	3	11012212 11012213	
11013133	Instrumental Analysis (1)	3	11012131	
11013143	Physical Chemistry (2)	3	11012241	
11031141	Statics and Probability	3	11031101	
Total		18		
Second Term				
Course No.	Course Title	Hrs.	Prerequisite	Corequisite
11013224	Inorganic Chemistry (3)	3	11012222	
11013251	Industrial Chemistry (1)	3	11012241	
11013235	Instrumental Analysis (2)	3	11013133	
11013236	Instrumental Analysis Laboratory	1	11012132	11013235
11013134	Electro Analytical chemistry	3	11012131	
11013144	Physical Chemistry Laboratory (2)	2	11012242	11013143
-	University Elective Requirement	3	-	
Total		18		

Fourth Year				
First Term				
Course No.	Course Title	Hrs.	Prerequisite	Corequisite
11014145	Physical Chemistry (3)	3	1101231	
11014291	Research Paper and Seminar	1	Department approval	
11013215	Chemistry of Biomolecules	3	11012212	
	Department Elective Requirement	3		
	Department Elective Requirement	3		
	University Compulsory Requirement	3		
	Total	16		
Second Term				
Course No.	Course Title	Hrs.	Prerequisite	Corequisite
11014292	Practical Chemical Training	3	Fourth level	
08012152	Curricula of Sciences and Teaching Methods	3	Fourth level	
	Department Elective Requirement	3		
	Department Elective Requirement	3		
	University Elective Requirement	3		
	Free Requirement	3		
	Total	18		