

Study Plan of the Program of Bachelor of Science in Chemistry

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030119	English Language (1)	3	6	-
31041103	Calculus (1)	4	4	-
31011103	General Biology	4	5	-
11010101	Islamic Education1 (The Islamic Manners)	2	1	-
11020204	Health Culture	1	2	-
15011104	Arabic Editing	2	2	-
First Year: Second Term				
11030219	English Language (2)	3	6	English Language (1) (11030119)
31031104	General Physics (1)	4	5	-
31021104	General Chemistry (1)	4	5	-
11020107	The Holy Koran (Recitation Correction)	2	2	-
11010111	Islamic Education 2 (The Islamic Civilization)	2	2	-
Second Year: First Term				
31021227	Specialized English Language for Chemistry	2	2	English Language (2) (11030219)
31021221	General Chemistry (2)	4	5	General Chemistry (1) (31021104)
31021223	Inorganic Chemistry (1)	4	5	General Chemistry (1) (31021104)
31021225	Organic Chemistry (1)	4	5	General Chemistry (1) (31021104)
31041221	Principles of Statistics & Probability	3	3	-
11010113	Voluntary Community Service (1)	0	0	-

Second Year: Second Term

31021222	Organic Chemistry (2)	4	5	Organic Chemistry (1) (31021225)
31021224	Inorganic Chemistry (2)	4	5	Inorganic Chemistry (I) (31021223)
31031227	General Physics (2)	3	4	General Physics (1) (31031104)
31011230	General Physiology	3	3	General Biology (31011103)
31041234	Calculus (2)	3	3	Calculus (1) (31041103)
11010123	Voluntary Community Service (2)	0	0	-
Third Year: First Term				
31021333	Inorganic Chemistry (3)	3	3	Inorganic Chemistry (2) (31021224)
31021331	Physical Chemistry (1)	3	4	General Chemistry (2) (31021221)
31021325	Analytical Chemistry (1)	4	5	General Chemistry (1) (31021104)
31021327	Biochemistry (1)	4	5	Organic Chemistry (2) (31021222)
31021329	Petroleum Chemistry	2	2	Organic Chemistry (2) (31021222)
11010112	Research and Essay Writing skills	2	2	-
Third Year: Second Term				
31021322	Physical Chemistry (2)	2	2	Physical Chemistry (1) (31021331)
31021324	Analytical Chemistry (2)	4	5	Analytical Chemistry (1) (31021325)
31021340	Chemistry of Heterocyclic Compounds	3	4	Organic Chemistry (2) (31021222)
31021332	Environmental Chemistry	2	2	-
31021326	Principles of Industrial Chemistry	2	2	General Chemistry (2) (31021221)

31021334	Electrochemistry	2	2	Physical Chemistry (1) (31021331)
31021336	Nuclear and Radioactive Chemistry	2	2	Physical Chemistry (1) (31021331)
Fourth Year: First Term				
31021447	Polymer Chemistry	3	3	Organic Chemistry (2) (31021222)
31021443	Analytical Chemistry (3)	3	4	Analytical Chemistry (1) (31021325)
31021449	Physical Chemistry (3)	3	3	Physical Chemistry (1) (31021331)
31021445	Spectroscopy	2	2	Analytical Chemistry (2) (31021324)
31021448	Graduation Project	2	3	85 Credit hours
	Major Elective 1 (chemistry)	3	3	
Fourth Year: Second Term				
31021442	Coordination Chemistry	2	2	Inorganic Chemistry (2) (31021224)
31021444	Chemical Kinetics	2	2	Physical Chemistry (1) (31021331)
31021440	Chemistry of Natural Products	3	3	Organic Chemistry (2) (31021222)
31021446	Organic Synthesis	3	4	Organic Chemistry (2) (31021222)
31021419	Material Science	3	3	Physical Chemistry (1) (31021331)
	Major Elective 2(chemistry)	3	3	
Electives				
31021451	Water Treatment	3	3	Principles of Industrial Chemistry (31021326)

31021453	Organic Reaction Mechanism	3	3	Organic Chemistry (2) (31021222)
31021455	Electroanalytical Methods	3	3	Electrochemistry (31021334)
31021450	Biochemistry (2)	3	3	Biochemistry (1) (31021327)
31021452	Polynuclear Aromatic Compounds	3	3	Organic Chemistry (2) (31021222)
31021454	Chemistry of Minerals extraction and Corrosion	3	3	Inorganic Chemistry (2) (31021224)