

Study Plan of the Program of Chemistry

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030119	English Language (1)	3	6	
42041103	Calculus 1	4	4	
42011103	General Biology	4	5	
11010101	Islamic Culture 1	2	2	
11020204	Health Education	1	1	
18091501	Arabic Editing	2	2	
Total		16	20	
First Year: Second Term				
11030219	English Language (2)	3	6	(11030119)
42020102	General Chemistry 1	4	5	-
42032102	General Physics 1	4	5	-
11010111	Islamic Culture 2	2	2	-
11020107	Recitation Correction	2	2	-
Total		15	20	
Second Year: First Term				
42021213	General Chemistry 2	4	5	(42020102)
42021219	Inorganic Chemistry I	4	5	(42020102)
42021217	Organic Chemistry 1	4	5	(42020102)
42041203	Principles of Statistics & Probability	3	3	-
42021221	English for Specific Purposes	2	2	
11010113	Voluntary Community Service 1	0	0	-
Total		17	20	
Second Year: Second Term				
42021214	Organic Chemistry 2	4	5	(42021217)
42021220	Inorganic Chemistry 2	4	5	(42021219)
42031216	General Physics 2	3	4	(42032102)
42011210	General Physiology	3	3	(42011103)
42041230	Calculus 2	3	3	(42041103)
11010123	Voluntary Community Service 2	0	0	
Total		17	20	
Third Year: First Term				
42021309	Analytical Chemistry 1	4	5	(42020102)
42021319	Biochemistry 1	4	5	(42021214)

42021321	Petroleum Chemistry	2	2	(342021214)
42021311	Physical Chemistry 1	3	4	(42021213)
42021317	Inorganic Chemistry 3	3	3	(420212Y·)
11010112	Research and Essay Writing skills	2	2	(42020102)
Total		18	21	
Third Year: Second Term				
42021322	Physical Chemistry 2	2	2	(42021311)
42021320	Analytical Chemistry 2	4	5	(42021309)
42021314	Principles of Industrial Chemistry	2	2	(42021213)
42021312	Environmental Chemistry	2	2	-
42021324	Electrochemistry	2	2	(42021311)
42021316	Nuclear and Radioactive Chemistry	2	2	(42021311)
42021318	Chemistry of Heterocyclic Compounds	3	4	(42021214)
Total		17	19	
Fourth Year: First Term				
42021437	Physical Chemistry 3	3	3	(42021311)
42021435	Analytical Chemistry 3	3	4	(42021309)
42021433	Polymer Chemistry	3	3	(42021214)
42021423	Spectroscopy	2	2	(42021320)
42021431	Graduation Research	2	3	85 Credit hours
	Major Elective 1(chemistry)	3	3	
Total		16	18	
Fourth Year: Second Term				
42021424	Chemistry of Natural Products	3	3	(42021214)
42021412	Coordination Chemistry	2	2	(42021220)
42021422	Chemical Kinetics	2	2	(42021311)
42021426	Organic Synthesis	3	4	(42021214)
42021428	Material Science	3	3	(42021311)
	Major Elective 2(chemistry)	3	3	
Total		16	17	
Electives				
Major Elective 1				
42021425	Water Treatment & Sea Water Desalination	3	3	(42021314)
42021427	Organic Reaction Mechanism	3	3	(42021214)
42021429	Electroanalytical Methods	3	3	(42021324)
Major Elective 2				
42021432	Biochemistry 2	3	3	(42021319)
42021434	Polynuclear Aromatic Compounds	3	3	(42021214)
42021438	Chemistry of Minerals extraction and Corrosion	3	3	(42021220)