

Study Plan for Department of Chemistry
 2019/2020
 (135) Credit Hours

First: University Requirements (24 Credit Hours)			
1. Compulsory University Requirements (12 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
01101101	Military Sciences *	3	Jordanian student
01101102	National Education *	3	Jordanian student
01101111	Arabic Language **	3	01100011
01101112	English Language **	3	01100012
*Non-Jordanian student has the right to register it or choose one of the courses offered by the university.			
** If the student does not pass the level exams should be take the following courses: Remedial Arabic Language (01100011), Remedial English Language (01100012), Remedial computer skills (01100051)			
2. Elective University Requirements (12 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
01101103	Traffic Education	3	
01101104	Innovation and Entrepreneurship	3	
01101121	Life Skills	3	
01101131	Islamic Education	3	
01101132	Jerusalem and the Hashemite custodianship	3	
01101141	Sports and Health	3	
01101142	Environment and Society	3	
01101151	Computer Skills	3	01100051 Pre
01101152	Internet and communication	3	
01101161	Economics System and Concepts		
01101171	Psychology and Society	3	
01101172	Modern language	3	
01101213	Communication Skills in Arabic	3	01101111 Pre
01101214	Communication Skills in English	3	01101112 Pre
01101243	Safety and First Aid	3	
01101281	Scientific Research Methods	3	
01101282	Introduction to Astronomy	3	
03011101	Law in Our Life	3	
03021201	Human Rights	3	
Second: Compulsory Faculty Requirements (21 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
06051211	Programming Fundamentals	3	01100051 Pre
11011101	General Chemistry (1)	3	-
11011281	General Biology	3	-
11021101	General Physics (1)	3	-
11031101	Calculus (1)	3	-
11031141	Statistics and Probabilities	3	11031101 Pre
11031202	Calculus (2)	3	11031101 Pre
Third: Department Requirements (87 Credit Hours)			
1. Compulsory Department Requirements (75 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
08012152	Curricula of Sciences and Teaching Methods	3	4 th level
11011103	General Chemistry Laboratory (1)	1	11011101 Sim
11011202	General Chemistry (2)	3	11011101 Pre
11011204	General Chemistry Laboratory (2)	1	11011103 Pre 11011202 Sim
11012111	Organic Chemistry (1)	3	11011202 Pre
11012121	Inorganic Chemistry (1)	3	11011202 Pre

11012131	Analytical Chemistry	3	11011202 Pre
11012132	Analytical Chemistry Laboratory	1	11011204 Pre 11012131 Sim
11012212	Organic Chemistry (2)	3	11012111 Pre
11012213	Organic Chemistry Laboratory	2	11011204 Pre 11012212 Sim
11012222	Inorganic Chemistry (2)	3	11012121 Pre
11012223	Inorganic Chemistry Laboratory	3	11011204 Pre 11012222 Sim
11012241	Physical Chemistry (1)	2	11011202 Pre 11032164 Pre
11012242	Physical Chemistry Laboratory (1)	3	11011204 Pre 11012241 Sim
11013133	Instrumental Analysis (1)	3	11012131 Pre
11013134	Electro Analytical Chemistry	3	11012131 Pre
11013143	Physical Chemistry (2)	3	11012241 Pre
11013144	Physical Chemistry Laboratory (2)	2	11012242 Pre 11013143 Sim
11013214	Systematic Identification of Organic Compounds	3	11012212 Pre 11012213 Pre
11013215	Chemistry of Biomolecules	3	11012212 Pre
11013224	Inorganic Chemistry (3)	3	11012222 Pre
11013235	Instrumental Analysis (2)	3	11013133 Pre
11013236	Instrumental Analysis Laboratory	1	11012132 Pre 11013235 Sim
11013251	Industrial Chemistry (1)	3	11012241 Pre
11014145	Physical Chemistry (3)	3	11013143 Pre
11014291	Research paper and seminar	1	Department approval
11014292	Practical Chemical Training	3	4 th level
11021103	General Physics Laboratory (1)	1	11021101 Sim
11021202	General Physics (2)	3	11021101 Pre
11032164	Ordinary Differential Equations	3	11031202 Pre
2. Elective Department Requirements (12 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
11013216	Biochemistry	3	11012212 Pre
11014117	Chemistry of Natural Products	3	11012212 Pre
11014118	Chemistry of Heterocyclic Compounds	3	11012212 Pre
11014137	Environmental Chemistry	3	11013131 Pre
11014138	Special Topics in Analytical Chemistry	3	11013235 Pre
11014146	Chemistry of Surfaces and Colloids	3	11013143 Pre
11014152	Industrial Chemistry (2)	3	11013251 Pre
11014161	Computer Applications in Chemistry	3	06051211 Pre
11014219	Medicinal Chemistry	3	11012212 Pre
11014225	Organometallic Chemistry	3	11012222 Pre
11014226	Nuclear and Radiochemistry	3	11013224 Pre
11014247	Special Topics in Physical Chemistry	3	11013143 Pre
11014253	Polymer Chemistry	3	11012212 Pre
11014271	Special Topics in Chemistry		department Approval
11014272	Experimental Chemical Research	3	department Approval
Fourth: Free courses(3 credit hours):any university course			