



Tafila Technical University
College of Science
Department of Chemistry and
Techno - Chemistry



Advisory Plan for B.Sc. Degree in Chemistry

First Academic Year - Chemistry Program							
The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0213105	Calculus 1	3	(1)	0213106	Calculus 2	3	0213105
0213107	General Chemistry 1	3	(3)	0205113	General Chemistry 2	3	0213107
0213108	General Chemistry Lab .1	1	0213107	0205114	General Chemistry Lab. 2	1	0205113
0213101	General Physics 1	3	(2)	0213102	General Physics 2	3	0213101
	Obligatory University Requirement	3		0213103	General Physics Lab. 1	1	0213101 ⁽⁴⁾
	University Elective Requirement	3		0213131	Principles of Statistics 1	3	None
				0213132	Principles of Statistics Lab.1	1	02013131 ⁽⁴⁾
					University Elective Requirement	3	
Total		16		Total		18	

(1) "High School Mathematics "or Prerequisite Mathematics 0213098.

(2) "High School Physics "or Prerequisite Physics 0213097.

(3) "High School Chemistry" or Prerequisite Chemistry 0213099.

(4) or concurrent



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Second Academic Year - Chemistry Program

The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0205251	Mathematics for Chemistry students	3	0213106	0213104	General Physics Lab. 2	1	0213102
0205234	Analytical Chemistry 1	3	0205113	0205213	Organic Chemistry 2	3	0205215 & 0205216 ⁽⁴⁾
0205235	Analytical Chemistry Lab.	1	& 0205114 0205234 ⁽⁴⁾	0205214	Organic Chemistry Lab. 2	2	0205213 & 0205216 ⁽⁴⁾
0205215	Organic Chemistry 1	3	0205113	0205221	Inorganic Chemistry 1	3	0205113 & 0205215
0205216	Organic chemistry Lab. 1	2	0205215 ⁽⁴⁾ &0205114	0205252	Computer Applications in Chemistry	3	0205113 & 0205251
0205243	Physical Chemistry 1	3	0205251 & 0205113	0205233	Analytical Chemistry 2	3	0205234
	Obligatory University Requirement	3			Obligatory University Requirement	3	
Total		18		Total		18	

(4) or concurrent



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Third Academic Year - Chemistry Program

The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0205312	Organic Spectroscopy	3	0205216	0205313	Systematic Identification of Organic Compounds Lab.	2	0205214 & 0205311
0205321	Inorganic Chemistry 2	3	0205221 & 0205213	0205323	Organometallic Chemistry	3	0205216 & 0205321
0205331	Instrumental Analysis	3	0205234 & 0205216	0205325	Inorganic Chemistry lab.	2	0205321
0205332	Instrumental Analysis Lab.	2	0205235 & 0205331 ⁽⁴⁾	0205344	Physical Chemistry Lab. 2	1	0205245 & 0205341 ⁽⁴⁾
0205341	Physical Chemistry 2	3	0205243	0205311	Organic chemistry (3)	3	0205213
0205242	Physical Chemistry Lab. 1	1	& 0205114 0205243 ⁽⁴⁾	0205345	Physical Chemistry 3	3	0205341 & 0205344
	Obligatory University Requirement	3			Obligatory University Requirement	3	
Total		18		Total		17	



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(4) or concurrent

Forth Academic Year - Chemistry Program							
The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0205431	Separation Methods	3	0205331	0205421	Chemistry of Elements	3	0205323
0205459	Applications of Artificial Intelligence in Chemistry	3	0205252	0213109	General Biology 1	3	None
0205450	Research Project	2	0205312		Elective Specialization Requirement	3	
	Elective Specialization Requirement	3			Obligatory University Requirement	3	
	Elective Specialization Requirement	3			Obligatory University Requirement	3	
Total		14		Total		15	