



## Chemistry Advising Plan 2021 - 2022

First Year / First Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1501130	General Chemistry 1	3	0	3	-
1501110	Calculus 1	3	0	3	-
1501120	General Physics 1	3	0	3	-
1501121	General Physics Lab 1	0	3	1	1501120 or sync.
1501131	General Chemistry Lab 1	0	3	1	1501130 or sync
1401123	Arabic Language (1)**	3	0	3	1401099
-	University Elective	3	0	3	-
<b>Total</b>		<b>15</b>	<b>6</b>	<b>17</b>	

First Year / Second Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1722102	General chemistry 2	3	0	3	1501130
1722103	General Chemistry lab 2	0	3	1	1722102 or sync.
1501210	Calculus 2	3	0	3	1501110
1501220	General Physics 2	3	0	3	1501120
1501143	General Biology 1	3	0	3	-
1401124	English Language (1)**	3	0	3	1401098
-					-
<b>Total</b>		<b>15</b>	<b>3</b>	<b>16</b>	

Second Year / First Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1722201	Organic Chemistry 1	3	0	3	1722102
1722221	Inorganic Chemistry 1	3	0	3	1722102
1722203	Analytical Chemistry	3	0	3	1722102
1722204	Analytical Chemistry lab	0	3	1	1722203 or sync.
1501160	Computer Skills 2	3	0	3	1501099
1721203	Ordinary Differential Equations1	3	0	3	1501210
<b>Total</b>		<b>15</b>	<b>3</b>	<b>16</b>	

Second Year / Second Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1501212	Probability and Statistics ☉	3	0	3	-
1722301	Organic Chemistry 2 ☉	3	0	3	1722201
1722202	Organic Chemistry lab1	0	4	2	1722201 or sync.
1722210	Physical chemistry 1	3	0	3	1722102
-	University Elective	3	0	3	-
-	Military Science*	3	0	3	-
<b>Total</b>		<b>15</b>	<b>4</b>	<b>17</b>	

Third Year / First Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1722321	Inorganic Chemistry 2	3	0	3	1722221
1722211	Physical chemistry lab1	0	4	2	1722210 or sync.
1722312	Instrumental Analysis 1 ☉	3	0	3	1722203
1722310	Physical chemistry 2 ☉	3	0	3	1722210
1722322	Inorganic chemistry lab	0	4	2	1722321 or sync.
-	National Education	3	0	3	-
1401010	Community service activity	0	0	0	-
<b>Total</b>		<b>12</b>	<b>8</b>	<b>16</b>	

Third Year / Second Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1722421	Inorganic Chemistry 3 ☉	3	0	3	1722321
1722422	Chemical of Biomolecules ☉	3	0	3	1722301
1722410	Physical chemistry 3	3	0	3	1722310
1722311	Physical chemistry lab2	0	3	1	1722310 or sync.
1722302	Organic Chemistry lab2	0	4	2	1722301 or sync.
1722313	Instrumental Analysis 2 ☉	3	0	3	1101312
1722314	Instrumental Analysis Lab	0	3	1	1722312 or sync.
<b>Total</b>		<b>12</b>	<b>10</b>	<b>16</b>	

Fourth Year / First Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1722412	Electrochemistry ☉	3	0	3	1722312
1722423	Research Seminar in Chemistry	0	0	1	Dept. Approval
1722411	Systematic identification of Organic Compou	1	4	3	1722301
-	Specialization Elective ☉	3	0	3	-
-	Specialization Elective ☉	3	0	3	-
-	Islamic Education	3	0	3	-
<b>Total</b>		<b>13</b>	<b>4</b>	<b>16</b>	

Fourth Year / Second Semester					
Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total	
1722490	Research project in chemistry	0	0	3	Pass. 90Cr. Hrs.
1722420	Industrial Chemistry ☉	3	0	3	1722301 +1722221
-	Specialization Elective ☉	3	0	3	-
-	Specialization Elective ☉	3	0	3	-
-	University Elective	3	0	3	-
-	Free Elective	3	0	3	-
<b>Total</b>		<b>15</b>	<b>0</b>	<b>18</b>	

☉ Concurrent

Total Credit Hours 132