

**Science**  
**Chemistry**

**Study Program : Master**  
**Study Plan Type : Thesis**  
**Academic Year : 2020**

**The requirements to obtain a Master degree is :-**

**\* The minimum requirements to get a Master degree in / Chemistry / is to pass 33 credit hours, according to this study plan.**

**\* The credit hours are distributed to get a Master degree as follows :-**

	<b>Number of credit hours</b>
<b>Specialization Requirments</b>	<b>24.000</b>
<b>Compulsory</b>	<b>15.000</b>
<b>Elective</b>	<b>9.000</b>
<b>Thesis</b>	<b>9.000</b>
<b>Compulsory</b>	<b>9.000</b>
<b>Elective</b>	<b>0.000</b>
<b>Total :</b>	<b>33.000</b>

**Specialization Requirments Credit Hours : 24**  
**Requirement type : Compulsory Credit Hours :15**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hours</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Pre - Requisite</b>	<b>Cours e Type</b>
2001031723	Advanced Inorganic Chemistry	3.000	3.000	0.000		in class
0000103711	Advanced Instrumental Methods of Analysis	3.000	3.000	0.000		in class
0000103731	Molecular Structure & Mechanisms of Organic Reactions	3.000	3.000	0.000		in class
0000103741	Quantum Chemistry	3.000	3.000	0.000		in class
0000103793	Reseach Methods	3.000	3.000	0.000		online learning

**Specialization Requirments Credit Hours : 24**  
**Requirement type : Elective Credit Hours :9**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hours</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Pre - Requisite</b>	<b>Cours e Type</b>
2001031721	Group Theory	3.000	3.000	0.000		in class
0000103712	Electronalytical Method of Analysis	3.000	3.000	0.000		in class
0000103713	Environmental Chemical Analysis	3.000	3.000	0.000		
0000103722	Structural Methods in Inorganic Chmistry	3.000	3.000	0.000		in class
0000103732	Chemistry of Heterocyclic Compounds	3.000	3.000	0.000		in class
0000103733	Organic Synthesis	3.000	3.000	0.000		in class
0000103742	Advanced Speectroscopy	3.000	3.000	0.000		in class
0000103743	Lasers & their Chemical Applications	3.000	3.000	0.000		in class
0000103795	Spesial Topics	3.000	3.000	0.000		blended learning

**Thesis Credit Hours : 9**  
**Requirement type : Compulsory Credit Hours :9**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hours</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Pre - Requisite</b>	<b>Cours e Type</b>
0000103799	Thesis	9.000	0.000	0.000		in class

**Thesis Credit Hours : 9**  
**Requirement type : Elective Credit Hours :0**

المجموعة الاولى يختار الطالب 0 ساعات كحد أقصى من

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Course Type
0009103799	thesis	0.000	0.000	0.000		in class
0003103799	thesis	3.000	0.000	0.000		in class
0006103799	thesis	6.000	0.000	0.000		in class