Study Plan for the Master of Science Degree in Chemistry / Thesis Track

- I. The applicant for this program should be:
 - 1. Holding a B.Sc. degree in Chemistry or any equivalent program.
 - 2. Passing the Foreign language according to the regulations of higher council.
- II. The Chemistry Department at Yarmouk University offers a Master of Science Degree in Chemistry on the completion of the following requirements:
 - 1. The fulfillment of the conditions stated in the regulations of awarding the master degree at Yarmouk University $N_{\underline{0}}$. (3) for the year 2011.
 - 2. Completion of remedial courses which the department sets.
 - 3. Completion of the study of (24) credit hours of the (600) level courses distributed as follows:
 - a. Obligatory Courses (15 credit hours):

Table No. (1): Obligatory Courses (15 credit hours)

Course No.	Title	Credit Hours
Chem. 611	Advanced Organic Chemistry (I) (Structure and Mechanism of Reactions)	3
Chem. 612	Advanced Organic Chemistry (II) (Synthesis and Reactions)	3
Chem. 621	Chemical Applications of Group Theory	3
Chem. 631	Analytical Separation Methods	3
Chem. 641	Molecular Structure and Spectroscopy	3

b. Elective Courses (9 credit hours):

Table No. (2): Elective Courses (9 credit hours)

Course No.	Title	Credit Hours
Chem. 613	Chemistry of Heterocyclic Compounds	3
Chem. 618	Chemistry of Natural Products	3
Chem. 622	Advanced Transition Metals Chemistry	3
Chem. 624	Transition Metals and Catalysis	3
Chem. 633	Atomic Spectrometric Methods of Analysis	3
Chem. 636	Methods of Chemical Analysis	3
Chem. 642	Chemical Kinetics	3
Chem. 652	Environmental Chemistry	3
Chem. 691	Special Topics in Organic Chemistry	3
Chem. 692	Special Topics in Inorganic Chemistry	3
Chem. 693	Special Topics in Analytical Chemistry	3
Chem. 694	Special Topics in Physical Chemistry	3

c. Preparation, presentations and successful defense of thesis Chem. 699 (9 credit hours):

Table No. (3): Credit Hours for Master Thesis

Course No.	Title	Credit Hours
Chem. 699 A	Thesis	0
Chem. 699 B	Thesis	3
Chem. 699 C	Thesis	6
Chem. 699 D	Thesis	9

المساقات التي يطرحها قسم الكيمياء لبرنامج الماجستير

Course No.	Title	Credit
_		Hours
Chem. 611	Advanced Organic Chemistry (I)	3
	(Structure and Mechanism of Reactions)	
Chem. 612	Advanced Organic Chemistry (II)	3
	(Synthesis and Reactions)	
Chem. 613	Chemistry of Heterocyclic Compounds	3
Chem. 618	Chemistry of Natural Products	3
Chem. 621	Chemical Applications of Group Theory	3
Chem. 622	Advanced Transition Metals Chemistry	3
Chem. 624	Transition Elements and Catalysis	3
Chem. 631	Separation Methods	3
Chem. 633	Atomic Spectrometric Methods of Analysis	3
Chem. 636	Advanced Analytical Methods	3
Chem. 641	Molecular Structure and Spectroscopy	3
Chem. 642	Chemical Kinetics	3
Chem. 652	Environmental Chemistry	3
Chem. 691	Special Topics in Organic Chemistry	3
Chem. 692	Special Topics in Inorganic Chemistry	3
Chem. 693	Special Topics in Analytical Chemistry	3
Chem. 694	Special Topics in Physical Chemistry	3
Chem. 699 A	Thesis	0
Chem. 699 B	Thesis	3
Chem. 699 C	Thesis	6
Chem. 699 D	Thesis	9