



Mutah University  
College of Graduate Studies  
**Master's Degree in Chemistry**  
**Thesis Track**

**Thesis Track: The number of credit hours for graduation is 33 hours, distributed as follows:**

	Course Code	Course Title	Credit Hours	Prerequisite
<b>A: - Specialization Requirements Compulsory Credit Hours (15)</b>	0303711	Analytical Separation Techniques	3	
	0303721	Chemical Application of Group Theory	3	
	0303731	Organic Chemistry (Structure & Mechanism)	3	
	0303741	Spectroscopy and Molecular Structure	3	
	0303742	Quantum Chemistry	3	

	Course Code	Course Title	Credit Hours	Prerequisite
<b>B: - Elective Major Requirements Credit Hours (9)</b>	0303712	Electro analytical Chemistry	3	
	0303722	Advanced Inorganic Chemistry	3	
	0303723	Advanced Bioinorganic Chemistry	3	
	0303732	Chemistry of Heterocyclic Compounds	3	
	0303733	Synthesis and Reactions of Organic Compounds	3	
	0303751	Polymer Chemistry	3	
	0303743	Chemical Kinetics	3	
	0303744	Statistical Thermodynamics	3	
	0303752	Polymer Physical Chemistry	3	
	0303701	Special Topics in Organic Chemistry	3	
	0303702	Special Topics in Physical Chemistry	3	
	0303703	Special Topics in Inorganic Chemistry	3	
	0303704	Special Topics in Analytical Chemistry	3	

- Thesis Preparation (Thesis Code): Equivalent to (9) credit hours, provided the student successfully passes the defence examination.
- The Dean, based on the recommendation of the Department Committee and the College Committee, may assign the student remedial courses not exceeding (9) credit hours. This must be documented in the admission letter, and the student is required to complete them during the first year.