



Mutah University
College of Graduate Studies

Master's Degree in Chemical Engineering Thesis Track

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

	Course Code	Course Title	Credit Hours	Prerequisite
A: - Specialization Requirements Compulsory Credit Hours (15)	0404721	Advanced Transport Phenomena	3	
	0404732	Advanced Thermodynamics	3	
	0404741	Advanced Chemical Reaction Engineering	3	
	0404751	Advanced Process Dynamic and Control	3	
	0406724	Research Methodology	3	
	0404701	Graduate Seminar	0	with 0404724

	Course Code	Course Title	Credit Hours	Prerequisite
B: - Elective Major Requirements Credit Hours (9)	0404731	Advanced Separation Technologies	3	
	0404733	Computational Fluid Dynamic	3	
	0404761	Quality Assurance and Control	3	
	0404763	Advanced Process Safety Engineering	3	
	0404764	Environmental Impact Assessment	3	
	0404765	Advanced Solid Waste Treatment	3	
	0404775	Water and industrial wastewater Treatment Technologies	3	
	0404781	Advanced Process Optimization	3	
	0404782	Renewable and Sustainable Energy	3	
	0404797	Special Topics in Chemical Process Technologies	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.