



Mutah University
College of Graduate Studies

**Master's Degree in Engineering Management/Industrial
Systems Engineering Department
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)	0406720	Advanced Engineering Economy	3	Engineering Economics
	0406724	Research Methodology	3	Probability, Stochastic Processes and Statistics
	0406726	Advanced Project Planning and Scheduling	3	Project Managements
	0406730	Advanced Engineering Statistics	3	Probability, Stochastic Processes and Statistics
	0406732	Advanced Systems Simulation and Modeling	3	Probability, Stochastic Processes and Statistics

	Course Code	Course Title	Credit Hours	Prerequisite
B: - Elective Major Requirements Credit Hours (9)	0406776	Advanced Total Quality Management	3	Probability, Stochastic Processes and Statistics
	0406740	Special Topics in Engineering Management	3	---
	0406741	Industrial Safety Management	3	---
	0406742	Systems of Information Management	3	---
	0406746	Cost Estimation and Control for Engineers	3	---
	0406774	Advanced Production and Operations Management	3	Probability, Stochastic Processes and Statistics
	0406773	Advanced Inventory Management and Control	3	Probability, Stochastic Processes and Statistics
	0406775	Advanced Engineering Maintenance Management	3	Probability, Stochastic Processes and Statistics
	0406738	Selected Research Topics	3	Research Methodology
	0406721	Advanced Operations Research	3	Probability, Stochastic Processes and Statistics
	0406771	Contracts and Legislations	3	-----
	0406772	Artificial Intelligence Integration in Engineering Management	3	Probability, Stochastic Processes and Statistics



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- 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.