

Department of Industrial Engineering
Course Requirements for Master's Degree (Effective Spring 2023)

Student Name: _____

		MSIE	MIE	MIE/MBA	Time Taken
Mandatory Core (2)	INDE 6372 (Advanced Linear Optimization)	3 hrs	3 hrs	3 hrs	
	INDE 6333 (Probability and Statistics for Engineers)	3 hrs	3 hrs	3 hrs	
Elective Core (Choose at least 1 from each of 3 categories)	Category 1: INDE 6321 (System Safety Engineering) INDE 6337 (Human Factor Engineering) INDE 6365 (Engineering Economy II)	3 hrs	3 hrs	3 hrs	
	Category 2: INDE 6336 (Reliability Engineering) INDE 6363 (Statistical Process Control) INDE 6370 (Digital Simulation) INDE 7397 (Predictive Data Analysis)	3 hrs	3 hrs	3 hrs	
	Category 3: INDE 6332 (Engineering Project Management) INDE 6361 (Production Planning and Control) INDE 6383 (Engineering Design and Prototyping) INDE 7390 (Supply Chain Management)	3 hrs	3 hrs	3 hrs	
Elective (5)	IE Elective courses	6 hrs	≥9 hrs	3 hrs	
	Non-IE Elective courses		≤6 hrs	12 hrs	
Research	Research Hours	3 hrs	0	0	
	Thesis Hours	6 hrs	0	0	
Total		30 hrs	30 hrs	30 hrs	
Required	INDE 6111 (Seminar)	1 hr	1 hr	1 hr	

List of IE Elective Courses (Partial):

INDE 6335 (Engineering Administration)	
INDE 6339 (Materials Handling)	
INDE 6360 (Engineering Analytics)	
INDE 6377 (Ind Eng Application)	
INDE 6378 (Case Study in Applied Ind Eng)	
INDE 6386 (ELEP)	
INDE 7340 (Integer Programming)	
INDE 7397 (Decision Modeling and Opt.)	
INDE 7397 (Oper. Mgmt & Supply Chain)	
INDE 7397 (Predictive Data Analytics)	
IEEM 6330 (Managing Engineering Functions)	
IEEM 6331 (Quant Methods for Engr Mgmt)	
IEEM 6335 (Engr Mgmt of Organizations)	
IEEM 6360 (Data Analytics for Engr. Mgt)	