

Operations Research & Analytics

E - Even; O - Odd; Sp - Spring; Su - Summer; Fa - Fall; DL - Distance Learning

Core				
Must include all 6 core courses in POS, receive B or better in at least 4				
Number	Course Name	Sem	DL	Prerequisites
5003	Probability and Statistics for Engineers	Fa	Y	STAT 4033 or IEM 3103
5013	Introduction to Optimization	Fa	Y	IEM 4013
5063	Network Optimization	Sp	Y	IEM 5013
5133	Stochastic Processes	Sp	N	MATH 2233, MATH 3013, STAT 5123 or IEM 5003
5703	Discrete Systems Simulation	Sp	Y	IEM 5003
5723	Data, Process, and Object Modeling	Sp	N	Graduate standing or consent of instructor

Supporting				
Non-Thesis option must include at least 2 supporting courses in POS; Supporting courses not required for the thesis option				
Number	Course Name	Sem	DL	Prerequisites
5203	Facility Location, Warehousing, & Transportation	Sp	N	IEM 5003 and IEM 5013
5503	Financial & Advanced Capital Investment Analysis	Fa	Y	IEM 3503, IEM 4013, IEM 5003
5603	Project Management	Su	Y	IEM 3403
5613	Integrated Manufacturing Control Systems	Fa	Y	IEM 4613
5633	Advanced Production and Inventory Control	Fa	N	IEM 4013, IEM 5763
5763	Supply Chain Strategy	Sp	Y	IEM 4613
5783	Applied Statistical Analysis in R for Engineers	Fa	Y	IEM 5003, IEM 5013
6033	Linear Optimization	Fa	N	5013 or consent of instructor
6053	Integer and Combinatorial Optimization	Sp	N	IEM 5063, IEM 6033 or consent of instructor
6123	Queueing Systems: Theory & Manufacturing Appl.	O-Fa	N	IEM 5003, IEM 5133 or consent of instructor