

Engineering Management (MR): Analytics Concentration

Degree Requirements

Core Requirements

Code	Title	Hours	Counts towards
Required Courses			
		15	
ISE/OR 501	Introduction to Operations Research		
Select one of the following courses:		3	
ST 513	Statistics for Management and Social Sciences I		
ST 515	Experimental Statistics for Engineers I		
ST 516	Experimental Statistics For Engineers II		
ST 517	Applied Statistical Methods I		
ST 518	Applied Statistical Methods II		
Select one of the following courses:		3	
EGR 501	Engineering Leadership and Strategic Change		
COM 530	Interpersonal Communication in Science and Technology Organizations		
COM 527	Seminar in Organizational Conflict Management		
COM 556	Seminar In Organizational Communication		
Select one of the following courses:		3	
EM 530	Project Management		
CE 561	Construction Project Management		
EGR 590	Special Topics in Engineering (Engineering Project Management)		

BUS 554	Project Management		
Select one of the following courses:		3	
ISE 510	Applied Engineering Economy		
EGR 505	Managerial Finance for Engineers		
CE 567	Risk and Financial Management in Construction		

Concentration Requirements

Code	Title	Hours	Counts towards
Required Courses		15	
Select four courses below:		12	
ISE 519	Database Applications in Industrial and Systems Engineering		
ISE 535	Python Programming for Industrial & Systems Engineers		
ISE 537	Statistical Models for Systems Analytics in Industrial Engineering		
OR/CE 537	Computer Methods and Applications		
MBA 545	Decision Making under Uncertainty		
MBA 590	Special Topics In Business Management (Operations Analysis)		
ST 562	Data Mining with SAS Enterprise Miner		
ST 555	Statistical Programming I		
Select one of the following courses:		3	
EM 675	Engineering Management Masters Project		
ISE 677	Industrial Engineering Projects		

MBA 559	Business Analytics Practicum	
Total Hours		30

Faculty

Full Professors

Julie Ivy

Practice/Research/Teaching Professor

Brandon M. McConnell

Associate Research Professor

Christopher D. Rock

Associate Teaching Professor

Kanton Reynolds

Emeritus Faculty

Javad Taheri