Engineering Management (MR): Advanced Manufacturing Concentration

Degree Requirements Core Requirements

Code	Title	Hours
Required Course	es	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
EM/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 Projet Management)	ect
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
Required Course	es	15
Select four of the	following courses:	12
ISE 725	Foundations of Smart Manufacturing	
ISE 555	Digital Manufacturing	
ISE 515	Manufacturing Process Engineering	
ISE 714	Product Manufacturing Engineering for the Med Device Industry	lical
ISE 716	Automated Systems Engineering	
ISE 718	Micro/Nano-Scale Fabrication and Manufacturing	ng
MAE 517	Advanced Precision Manufacturing for Products Systems and Processes	5,
MAE 531	Engineering Design Optimization	

	MAE 545	Metrology For Precision Manufacturing	
	MSE 500	Modern Concepts in Materials Science	
	MSE 539	Advanced Materials	
	MSE 540	Processing of Metallic Materials	
	MSE 556	Composite Materials	
	MSE 580	Materials Forensics and Degradation	
	MSE 705	Mechanical Behavior Of Engineering Materials	
	MSE/MBA 576	Technology Entrepreneurship and	
		Commercialization I	
	MSE/MBA 577	Technology Entrepreneurship and	
		Commercialization II	
	ISE 748	Quality Engineering	
Т	ake one of the fo	ollowing courses:	3
	MAE 526	Fundamentals of Product Design	
	EM 675	Engineering Management Masters Project	
Total Hours			30

Faculty

Director

Brandon M. McConnell, Interim Director

Full Professors

Sebastian Heese , Owens Distinguished Professor of Supply Chain Management

Jonathan Bohlmann, Professor of Marketing and Innovation

John Baugh, Professor

Joseph DeCarolis, Professor

Jingyan Dong, Professor

Shu-Cherng Fang, Walter Clark Chair Professor and University Alumni Distinguished Graduate Professor

Yahya Fathi, Professor

Rob Handfield, Bank of America University Distinguished Professor of Operations and Supply Chain Management

Ola Harrysson, Edward P. Fitts Distinguished Professor

Jessica Jameson, Professor

Edward Jaselskis, E.I. Clancy Distinguished Professor

Russell King, Foscue Distinguished Professor

Yuan-Shin Lee, Professor

Maria Mayorga, Professor

Rohan Shirwaiker, James T. Ryan Professor

Julie Swann, A. Doug Allison Distinguished Professor and Department Head

Daowen Zhang, Professor

Associate Professors

Karen Chen, Associate Professor

Adolfo R. Escobedo, Associate Professor

Xiaolei Fang, Associate Professor

Leila Hajibabai, Associate Professor

Tim Horn, Associate Professor

Michael Kay, Associate Professor

Tim Kraft, Associate Professor of Operations and Supply Chain Management

Osman Ozaltin, Associate Professor of Personalized Medicine

Daniel Saloni, Associate Professor

Jeffrey Stonebraker , Associate Professor of Operations and Supply Chain Management

Hong Wan, Associate Professor

Don Warsing, Associate Professor of Operations and Supply Chain Management

Xu Xu, Associate Professor

Assistant Professors

S Mohammad Hosseinian, Assistant Professor

Jordan Kern, Assistant Professor

Ben Rachunok, Assistant Professor

Sara Shashaani, Assistant Professor

Renran Tian, Assistant Professor

Associate Research Professor

Christopher D. Rock, Associate Research Professor

Teaching Professor

Corey Kiassat, Teaching Professor

Associate Teaching Professor

Meagan Kittle Autry, Associate Teaching Professor

S. Sebnem Ahiska King, Teaching Associate Professor

Fred Livingston, Associate Teaching Professor

Kanton Reynolds, Associate Teaching Professor

Teaching Assistant Professors

Donnie Hale, Teaching Assistant Professor in Business Analytics

Nur Ozaltin, Teaching Assistant Professor

Professor of the Practice

Steven DelGrosso, Professor of the Practice

Doug Morton, Professor of the Practice

James Rispoli, Professor of the Practice

Emeritus Faculty

Javad Taheri, Associate Research Professor Emeritus

Associate and Adjunct Faculty

Edwin Addison, Adjunct Professor

Lecturers

Ken Gregory, Lecturer

Dan Harris, Lecturer

Dan Kempton, Adjunct Lecturer

Robert Nunez, Lecturer