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Engineering Management (MR): Health and Human Systems Concentration

Degree Requirements

Core Requirements

Code	Title Ho	ours		
Required Courses 15				
ISE/OR 501	Introduction to Operations Research			
Select one of the following courses:				
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:				
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:				
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:				
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 Courses			
ISE 521	Healthcare Systems Performance Improvement	II	
Select four of the	following courses:	12	
ISE 520	Healthcare Systems Performance Improvement	I	
ISE/OR 525	Medical Decision Making		
ISE 533	Service Systems Engineering		
ISE 547	Applications of Data Science in Healthcare		
ISE 562	Simulation Modeling		
ISE 560	Stochastic Models in Industrial Engineering		
TE 533	Lean Six Sigma Quality		
ISE 511	Supply Chain Economics and Decision Making		
ISE 541	Occupational Safety Engineering		

ISE 544	Occupational Biomechanics	
Total Hours		

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

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