

Engineering Management (MR): Health and Human Systems 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	
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 Engrg		
ISE 544	Occupational Biomechanics		
Total Hours		30	

Faculty

Director

Brandon M. McConnell, *Interim Director*

Full Professors

Sebastian Heese, *Owens Distinguished Professor of Supply Chain Management*

John Baugh, *Professor*

Joseph DeCarolis, *Professor*

Jingyan Dong, *Professor*

Yahya Fathi, *Professor*

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*

Daowen Zhang, *Professor*

Associate Professors

Karen Chen, *Associate Professor*

Adolfo R. Escobedo, *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*

Assistant Professors

Xiaolei Fang, *Assistant Professor*

Leila Hajjibabai, *Assistant Professor*

Associate Research Professor

Christopher D. Rock, *Associate Research 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 Professor

Nur Ozaltin, *Teaching Assistant Professor*

Professor of the Practice

Doug Morton, *Professor of the Practice*

James Rispoli, *Professor of the Practice*

Michael Spano, *Professor of Practice*

Emeritus Faculty

Javad Taheri, *Associate Research Professor Emeritus*

Associate and Adjunct Faculty

Edwin Addison, *Adjunct Professor*

Lecturers

Steven DelGrosso, *Lecturer*

Dan Harris, *Lecturer*

Dan Kempton, *Adjunct Lecturer*

Robert Nunez, *Lecturer*