# Engineering Management (MR): Supply Chain Engineering & Management Concentration

# **Degree Requirements**

# **Core Requirements**

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

| EGR 590           | Special Topics<br>in Engineering<br>(Engineering<br>Project<br>Management) |   |
|-------------------|--|---|
| BUS 554           | Project<br>Management  |   |
| Select one of the | following courses:   | 3 |
| ISE 510           | Applied<br>Engineering<br>Economy  |   |
| EGR 505           | Managerial<br>Finance for<br>Engineers                                     |   |
| CE 567            | Risk and<br>Financial<br>Management in<br>Construction                     |   |

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## **Concentration Requirements**

| Code                                 | Title   | Hours | Counts towards |
|--------------------------------------|---|-------|----------------|
| Required Course                      |   | 15    |                |
| Select four of the                   | following courses:  | 12    |                |
| ISE 511                              | Decision Making<br>and Game<br>Theory for Supply<br>Chains        |       |                |
| ISE 513                              | Humanitarian<br>Logistics   |       |                |
| ISE 535                              | Python<br>Programming<br>for Industrial<br>& Systems<br>Engineers |       |                |
| ISE 552                              | Design and<br>Control of<br>Production and<br>Service Systems     |       |                |
| ISE 553                              | Modeling and<br>Analysis of<br>Supply Chains                      |       |                |
| ISE 754                              | Logistics<br>Engineering  |       |                |
| MBA 541                              | Supply<br>Management  |       |                |
| MBA 544                              | Operations<br>Analysis  |       |                |
| MBA 546                              | Strategic<br>Operations<br>Management                             |       |                |
| Select one of the following courses: |   | 3     |                |
| MBA 549                              | Supply Chain<br>Management<br>Practicum                           |       |                |

| EM 675      | Engineering<br>Management |    |
|-------------|---------------------------|----|
|             | Masters Project           |    |
| 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 Hajibabai, 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