

Department of Industrial Engineering and Engineering Management Graduate Certificates Curriculum 2019-2020

Risk and Emergency Management

Course Requirements:

- EMGT 602** – Introduction to Risk and Emergency Management
 - EMGT/IE 614** – Engineering Quantitative Risk Analysis Methods
 - EMGT/IE 691** – Industrial Safety and Public Health Analysis Methods
- and
- EMGT/IE 620** – Multi-Criteria Decision Analysis
 - or
 - EMGT/IE 626** – Discrete Systems Simulation

Engineering Supply Chain Management

Course Requirements:

- EMGT/IE 619** – Engineering Supply Chain
- EMGT/IE 645** – Quantitative Models of Supply Chain Management
- EMGT/IE 644** – Quality Systems and Process Improvement
- EMGT/IE 626** – Discrete Event Simulation

Lean Six Sigma Green Belt

Course Requirements:

- EMGT 607** – Quality Engineering
- EMGT 615** – Statistical Quality Control
- EMGT/IE 643** – Design of Experiments
- EMGT/IE 644** – Quality Systems and Process Improvement

Engineering Data Analytics

Course Requirements:

- IE 601** – Advanced Engineering Statistics
 - EMGT/IE 691** – Data Mining Methods
 - EMGT/IE 635** – Operations Research I
- and
- BIS 635** – Enterprise Analytics with SAP
 - or
 - EMGT/IE 691** – Machine Learning
 - or
 - EE 545** – Neural Networks

Project Management

Course Requirements:

- EMGT 605** – Engineering Management
- EMGT 609** – Advance Engineering Economics
- EMGT/IE 619** – Supply Chain Management
- EMGT 648** – Project Management

Industrial Safety and Public Health

Course Requirements:

- IE 604** – Human Factors
- EMGT 602** – Engineering Risk and Emergency Management
- EMGT/IE 69x** – Safety Engineering
- EMGT/IE 69x** – Industrial Safety and Public Health Analysis Methods

Operations Management

Course Requirements:

- EMGT/IE 631** – Production and Inventory Modeling
 - EMGT/IE 619** – Engineering Supply Chain
 - BIS 633** – Enterprise Analytics Applications with AP
- and
- EMGT/IE 622** – Lean Systems
 - or
 - EMGT 607** – Quality Engineering

Operations Research

Course Requirements:

- EMGT/IE 620** – Multi-criteria Decision Analysis
- EMGT/IE 626** – Discrete Systems Simulation
- EMGT/IE 635** – Operations Research I
- EMGT/IE 643** – Design of Experiments

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College of **Engineering**

For course descriptions, visit:
wne.edu/catalogue