MSIE—Industrial Engineering
Major Code: INDE (Industrial Engineering)
Coursework Option

IE 6200 Engineering Probs and Stats 4.0 SH
OR 6205 Deterministics Ops Research 4.0 SH
Choose two courses from the list "Core Requirements" below
Industrial Course Option Electives—from list 16.0 SH
"Course Option Electives" below
Group Total .......................................................... 32.0 SH

Program Total 32.0 SH

Core Requirements
IE 7210 Production Systems 4.0 SH
IE 7215 Simulation Analysis 4.0 SH
IE 7315 Human Factors Engineering 4.0 SH

Course Option Electives
OR 7230 Probabilistic Operat Research 4.0 SH
OR 7235 Inventory Theory 4.0 SH
OR 7240 Integer and Nonlinear Optimize 4.0 SH
OR 7245 Network Analysis/Adv Optimiztn 4.0 SH
OR 7250 Multi-Criteria Decision Making 4.0 SH
OR 7260 Constraint Programming 4.0 SH
OR 7310 Logistics, Warehouse and Schedul 4.0 SH
IE 5630 Biosensor and Human Beh Measure 4.0 SH
IE 7315 Human Factors Engineering 4.0 SH
CSYE 7270 Building Virtual Environments 4.0 SH
CSYE 7280 Human-Computer Interaction 4.0 SH

CSYE 7270 Human-Computer Interaction 4.0 SH
CSYE 7280 Manufacturing Methods and Tech 4.0 SH
IE 5617 Lean Concepts and Applications 4.0 SH
IE 5620 Mass Customization 4.0 SH
IE 7255 Manufacturing Processes 4.0 SH
IE 7270 Intelligent Manufacturing 4.0 SH
IE 7285 Statistical Quality Control 4.0 SH
IE 7290 Rel Anlys and Risk Assessment 4.0 SH
IE 7275 Data Mining in Engineering 4.0 SH
IE 7280 Stat Methods in Engineering 4.0 SH
IE 7615 Neural Networks in Engineering 4.0 SH
CSYE 6200 Concepts of Object-Oriented Des 4.0 SH
CSYE 6210 Component Software Development 4.0 SH
CSYE 6220 Enterprise Software Design 4.0 SH
CSYE 7230 Software Engineering 4.0 SH
EMGT 5220 Engineering Project Management 4.0 SH
EMGT 6225 Economic Decision Making 4.0 SH
EMGT 5300 Engineering/Org Psychology 4.0 SH
EMGT 6305 Financial Management for Engr 4.0 SH
OR 7310 Logistics, Warehouse and Schedul 4.0 SH

MSIE—Industrial Engineering
Major Code: INDE (Industrial Engineering)
Theor Option

IE 6200 Engineering Probs and Stats 4.0 SH
OR 6205 Deterministics Ops Research 4.0 SH
IE 7990 MS Thesis 8.0 SH
Choose two courses from the list "Core Requirements" below
Industrial Thesis Option Electives—from list 8.0 SH
"Thesis Option Electives" below
Group Total .......................................................... 32.0 SH

Program Total 32.0 SH

Core Requirements
IE 7210 Production Systems 4.0 SH
IE 7215 Simulation Analysis 4.0 SH
IE 7315 Human Factors Engineering 4.0 SH

Thesis Option Electives
OR 7230 Probabilistic Operat Research 4.0 SH
OR 7235 Inventory Theory 4.0 SH
OR 7240 Integer and Nonlinear Optimize 4.0 SH
OR 7245 Network Analysis/Adv Optimiztn 4.0 SH
OR 7250 Multi-Criteria Decision Making 4.0 SH
OR 7260 Constraint Programming 4.0 SH
OR 7310 Logistics, Warehouse and Schedul 4.0 SH
IE 5630 Biosensor and Human Beh Measure 4.0 SH
IE 7315 Human Factors Engineering 4.0 SH
CSYE 7270 Building Virtual Environments 4.0 SH
CSYE 7280 Human-Computer Interaction 4.0 SH
CSYE 7260 Manufacturing Methods and Tech 4.0 SH
IE 5617 Lean Concepts and Applications 4.0 SH
IE 5620 Mass Customization 4.0 SH
IE 7255 Manufacturing Processes 4.0 SH
IE 7270 Intelligent Manufacturing 4.0 SH
IE 7285 Statistical Quality Control 4.0 SH
### PhD—Industrial Engineering

**Major Code:** INDE (Industrial Engineering)

#### Advanced Degree Entrance

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**Program Total** 24.0 SH

### PhD—Industrial Engineering

**Major Code:** INDE (Industrial Engineering)

#### Bachelor's Degree Entrance

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**Program Total** 48.0 SH

### MSIE—Industrial Engineering with Graduate Certificate in Engineering Leadership

**Major Code:** INDE (Industrial Engineering)

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<td>ENLR 5122 Engr Leadership 2</td>
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<td>ENLR 5131 Sci Foundations of Engr 1</td>
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<td>ENLR 5132 Sci Foundations of Engr 2</td>
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<td>ME 7440 Mech Eng Leader Challeng Proj 1</td>
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<tr>
<td>ME 7442 Mech Eng Leader Challeng Proj 2</td>
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<tr>
<td>IE 6200 Engineering Probs and Stats</td>
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<tr>
<td>OR 6205 Deterministics Ops Research</td>
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**Program Total** 32.0 SH

### Core Requirements

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<tr>
<td>IE 7210 Production Systems</td>
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