MANUFACTURING SYSTEMS OPTION

This option is offered within the following major(s):


This option, taken in conjunction with the BS in Manufacturing Engineering degree, will prepare students for careers in manufacturing industry that focus on production system design, analysis, and improvement.

Option Code: 957

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGR 390</td>
<td>ENGINEERING ECONOMY</td>
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<tr>
<td>IE 112</td>
<td>SPREADSHEET SKILLS FOR INDUSTRIAL &amp; MANUFACTURING ENGINEERS</td>
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<td>IE 212</td>
<td>COMPUTATIONAL METHODS FOR INDUSTRIAL ENGINEERING</td>
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<td>IE 285/MFGE 285</td>
<td>INTRODUCTION TO INDUSTRIAL AND MANUFACTURING ENGINEERING</td>
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<td>IE 355</td>
<td>STATISTICAL QUALITY CONTROL</td>
<td>4</td>
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<tr>
<td>IE 356</td>
<td>EXPERIMENTAL DESIGN FOR INDUSTRIAL PROCESSES</td>
<td>4</td>
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<td>IE 366</td>
<td>WORK SYSTEMS ENGINEERING</td>
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<tr>
<td>IE 367</td>
<td>PRODUCTION PLANNING AND CONTROL</td>
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<td>IE 368</td>
<td>FACILITY DESIGN AND OPERATIONS MANAGEMENT</td>
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Required Electives
Select a minimum of 8 credits from the following:

- CHE 445 POLYMER ENGINEERING AND SCIENCE
- ECE 418 SEMICONDUCTOR PROCESSING
- IE 411 VISUAL PROGRAMMING FOR INDUSTRIAL APPLICATIONS
- IE 412 INFORMATION SYSTEMS ENGINEERING
- IE 415 SIMULATION AND DECISION SUPPORT SYSTEMS
- IE 418 TELECOMMUNICATION CONCEPTS
- IE 419 WIRELESS NETWORKS
- IE 425 INDUSTRIAL SYSTEMS OPTIMIZATION
- IE 426 STOCHASTIC MODELS OF INDUSTRIAL SYSTEMS
- IE 470 MANAGEMENT SYSTEMS ENGINEERING
- IE 471 PROJECT MANAGEMENT IN ENGINEERING
- IE 475 ADVANCED MANUFACTURING COSTING TECHNIQUES
- MATS 322 MECHANICAL PROPERTIES OF MATERIALS
- ME 312 THERMODYNAMICS
- ME 316 MECHANICS OF MATERIALS
- ME 331 INTRODUCTORY FLUID MECHANICS
- ME 383 MECHANICAL COMPONENT DESIGN
- ME 480 MATERIALS SELECTION
- ME 499 SPECIAL TOPICS
- MFGE 438 COMPOSITES MANUFACTURING
- ROB 421 APPLIED ROBOTICS

Total Credits: 39

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