ISYE MS REQUIREMENTS: Manufacturing & Production Systems Area (Fall ‘12 & beyond)

STUDENT NAME: ________________________ CAMPUS ID#: ______________ DATE: __________

ADVISOR NAME: ________________________ ADVISOR SIGNATURE: ____________________

Cont. on for PhD: Yes No Degree Requirements Confirmed (Office use only):______________

<table>
<thead>
<tr>
<th>MS Degree Requirements: 30 degree credits total</th>
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<tbody>
<tr>
<td><strong>BROAD CORE COURSES (12 credits; select one course from each category)</strong></td>
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<tr>
<td><strong>Optimization</strong></td>
</tr>
<tr>
<td>ISyE 525 Linear Programming Methods</td>
</tr>
<tr>
<td>ISyE 635 Tools and Environments for Optimization</td>
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<tr>
<td><strong>Probability and stochastic modeling</strong></td>
</tr>
<tr>
<td>ISyE 624 Stochastic Modeling Techniques</td>
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<tr>
<td>ISyE 632 Introduction to Stochastic Modeling</td>
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<td>ISyE 643 Performance Analysis of Manufacturing Systems</td>
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<tr>
<td><strong>Simulation</strong></td>
</tr>
<tr>
<td>ISyE 620 Simulation Modeling and Analysis</td>
</tr>
<tr>
<td><strong>Statistics and decision analysis</strong></td>
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<tr>
<td>ISyE 512 Inspection, Quality Control, and Reliability</td>
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<tr>
<td>ISyE 516 Introduction to Decision Analysis</td>
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<tr>
<td>ISyE 575* Introduction to Quality Engineering</td>
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<tr>
<td>Stat 424* Statistical Experimental Design for Engineers</td>
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<tr>
<th><strong>TRACK CORE COURSES (6 credits; select two courses)</strong></th>
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<tbody>
<tr>
<td>**Term Taken</td>
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<tr>
<td>ISyE 510 Facilities Planning</td>
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<tr>
<td>ISyE 605 Computer Integrated Manufacturing</td>
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<tr>
<td>ISyE 615 Production Systems Control</td>
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<tr>
<th><strong>TECHNICAL ELECTIVE COURSES (12 credits; At least 6 credits must be ISyE courses or cross-listed with ISyE; must be 400 level or above; at most 6 credits of independent study courses can be used)</strong></th>
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<tbody>
<tr>
<td><strong>Sample Electives:</strong></td>
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<tr>
<td>• Any courses listed above in ISyE</td>
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<tr>
<td>• Courses in ISyE, such as 415, 425, 449, 515,612,641,658,671, and others</td>
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<tr>
<td>• Courses in Engineering, Sciences, Mathematics, Statistics, Business, Computer Sciences, Economics, Population Health Sciences, or Psychology, if approved by the advisor</td>
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<tr>
<td>**Term Taken</td>
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<td>ISyE ______</td>
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<td>ISyE ______</td>
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<tr>
<td>ISyE ______</td>
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<td>ISyE ______</td>
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*Only one of ISyE 575 and Stat 424 may count toward the MS degree.
Please complete & return form to Student Services, 3182 ME Building, your final semester.

EXIT REQUIREMENTS

In order to be eligible for graduation, a Master’s student must:

- Have a GPA of 3.0 or higher
- Meet all MS degree requirements for their focus area
- Have all grades entered, except for the current semester. No Is or NRs can show on the student’s transcript.
- Be enrolled in at least 2 credits the semester in which they graduate.
- Have their MS degree warrant signed and dated by the degree deadline.

JOB PLACEMENT

Engineering Career Services Office
Engineering Centers Building
1550 Engineering Drive, Room M1002
Madison, WI  53706
Tel:  (608) 262-3471
FAX:  (608) 262-7262
http://www.engr.wisc.edu/services

FURTHER INFORMATION

University of Wisconsin-Madison
Industrial Engineering Department
1513 University Avenue, Room 3270
Madison, WI  53706-1572
Tel:  (608) 262-2686
FAX:  (608) 262-8454
Email:  ie-admission@engr.wisc.edu
http://www.engr.wisc.edu/ie

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