ISYE MS REQUIREMENTS: Decision Science/Operations Research Area

STUDENT NAME: _____ CAMPUS ID#: _____ DATE: _____

ADVISOR NAME: _____ ADVISOR SIGNATURE:_____

Cont. on For PHD: Yes No Degree Requirements Confirmed (Office use only)**: _____**

Core Courses: 18 cr total		**Term Taken**	**Grade**
Optimization (6 cr min)			
IE 525	Linear Programming Methods		
IE 635	Tools and Environ. for Optimization		
IE 719	Network Flows		
IE 720	Integer Programming		
IE 723	Dynamic Programming and Associated Topics		
IE 726	Nonlinear Programming Theory and Applications		
IE 727	Nonsmooth Optimization		
IE 730	Nonlinear Programming Algorithms		
Auth Substitution			
Auth Substitution			
Stochastic Processes (6 cr min)		**Term Taken**	**Grade**
IE 624	Stochastic Modeling Techniques		
IE 632	Intro to Stochastic Processes		
IE 633	Queuing Theory and Stoch. Modeling		
IE 643	Performance Analy. of Mfg. Systems		
Auth Substitution			
Auth Substitution			
Simulation (3 cr min)		**Term Taken**	**Grade**
IE 620	Simulation Modeling & Analysis of IE Systems		
Auth Substitution			
Auth Substitution			
Organizations, Decisions, and Implementation Issues (3 cr min)		**Term Taken**	**Grade**
IE/ME 513	Analysis of Capital Investments		
IE 516	Intro to Decision Analysis		
IE 641	Design & Analysis of Mfg. Systems		
IE 658 /OTM 758	Managing Techno Change in Mfct'g Systems		
ISyE/OTM 671	E-Business - Technologies, Strategies and Applications		
ISyE/OTM 672	E-Business Trans - Design, Analysis and Justification		
MHR 700	Organizational Behavior		
MHR 720	Organization & Mgmt Processes		
Auth Substitution			
Electives: 12 cr total; Advisor's approval required		**Term Taken**	**Grade**
Independent study or project work: 6 cr max		**Term Taken**	**Grade**

Please complete & return form to Student Services, 3182 ME your final semester.

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MS DEGREE REQUIREMENTS

The curriculum is designed to provide both balance and breadth in the student's understanding of decision science and operations research techniques and applications. To accomplish this, students must take a specified number of classes in each of several core areas. The program is rounded out with electives. Flexibility is built into the curriculum to accommodate a wide range of interests and applications.

Popular Electives:

ISyE/CS/Math 425	Combinatorial Optimization
ISyE/ME 510	Facilities Planning
ISyE/ME 512	Inspection, Quality Control, & Reliability
ISyE 575	Introduction to Quality Engineering
ISyE 605	Computer Integrated Manufacturing
ISyE/Psych 653	Organization and Job Design
OTM 750	Operations Management

EXIT REQUIREMENTS

In order to be eligible for graduation, an MS student must:

- Have a GPA of 3.0 or higher
- Meet all MS degree requirements
- 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 2cr the semester in which they graduate.
- Have their MS degree warrant signed and dated by the degree deadline.

JOB PLACEMENT

For assistance in your job search, please contact:

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