

ISYE MS REQUIREMENTS: Manufacturing & Production Systems Area (Fall '10 & beyond)

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

ADVISOR NAME: _____ ADVISOR SIGNATURE: _____

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

MS Degree Requirements: 30 degree credits total			
CORE COURSES (6 cr; select any two)		Term Taken	Grade
ISyE/ME 510	Facilities Planning		
ISyE 605	Computer Integrated Manufacturing		
ISyE 615	Production Systems Control		
FOCUS COURSES (18 cr total; must have 2 categories w/6 cr in each)			
Manufacturing System Modeling & Analysis		Term Taken	Grade
ISyE/ME 510	Facilities Planning		
ISyE/OTM 578	Facilities Location Models		
ISyE 615	Production Systems Control		
ISyE/OTM 620	Simulation Modeling & Analysis		
ISyE/Math/OTM/Stat 632	Introduction to Stochastic Modeling		
ISyE/ME 641	Design & Analysis of Manufacturing Systems		
ISyE 643	Performance Analysis of Manufacturing Systems		
ISyE 816	Special Topics: Supply Chain Optimization		
OTM 640	Business Logistics Analysis		
OTM 722	Logistics Management		
Auth Substitution			
Computer Integrated Mfg. Processes and Technology		Term Taken	Grade
ISyE 415	Intro to Mfg. Systems, Design & Analysis		
ISyE 605	Computer Integrated Manufacturing		
ISyE 612	Info. Sensing and Analysis for Man Processes		
ISyE 655	Advanced CAD/CAM		
ISyE 691	Special Topics: Information Sensing & Technology		
ME 417	Introduction to Polymer Processing		
ME 418	Engineering Design with Polymers		
ME 419	Fundamentals of Injection Molding		
ME/ECE 439	Introduction to Robotics		
ME 447	Computer Control of Machines & Processes		
ME 601	Special Topics: Rapid Prototyping and Adv. Mnf'g		
ME/ECE 739	Advanced Automation and Robotics		
Auth Substitution			
Manufacturing System Management		Term Taken	Grade
ISyE/ME 513	Analysis of Capital Investments		
ISyE 515	Engr Mgmt-Continuous Process Improvement		
ISyE 658/OTM 758	Managing Tech Change in Mfg Systems		
OTM 654	Production Planning & Control		
OTM 700	Operations Management		
Auth Substitution			
Information & Decision Technology		Term Taken	Grade
CS 367	Introduction to Data Structures		
CS 540	Introduction to Artificial Intelligence		
CS 564	Database Mgmt System: Design & Implementation		
ISyE 516	Introduction to Decision Analysis		
ISyE/OTM/InfoSys 671	E-Business: Technologies, Strategies & Applications		
OTM 765	Special Topics: Database Conc for Op Management		
Marketing 765	Enterprise Systems and Supply Chain Mgt		
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BREADTH COURSE (3 cr; select one course)			
Human Factors & Ergonomics in Manufacturing		Term Taken	Grade
ISyE 555	Human Performance and Accident Causation		
ISyE/BME 564	Occupational Ergonomics and Biomechanics		
ISyE/Psych 653	Organization & Job Design		
ISyE 764	Occupational Biomechanics		
Auth Substitution			
Quality in Manufacturing		Term Taken	Grade
ISyE/ME 512	Inspection, Quality Control & Reliability		
ISyE 520	Quality Assurance Systems		
ISyE 575	Introduction to Quality Engineering		
OTM 770	Quality & Productivity Improvement		
Auth Substitution			
FREE ELECTIVE (3 cr) Can include Independent Study or Research Cr.		Term Taken	Grade

**Please complete & return form to Student Services, 3182 ME 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 2cr 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>