

ISYE MS REQUIREMENTS: Manufacturing & Production Systems **Research Area (*Fall'06 & beyond*)**

NAME: _____ CAMPUS ID# _____ DATE: _____

ADVISOR: _____ Advisor Signature _____

Cont. on For PHD Yes No Graduation Requirements Confirmed: _____

MS Degree Requirements: 30 degree credits total			
CORE COURSES (6 cr; select any two)		Term Taken	Grade
IE/ME 510	Facilities Planning		
IE 605	Computer Integrated Manufacturing		
IE 655	Advanced CAD/CAM		
FOCUS COURSES (18 cr total; must have 2 categories w/ 6 cr in each)			
Manufacturing System Modeling & Analysis			
IE/ME 510	Facilities Planning		
IE/ OTM 578	Facilities Location Models		
IE/OTM 620	Sim Model & Analysis of IE Systems		
IE/MATH/OTM/STAT 632	Intro-Stoch Processes		
IE/ME 641	Design & Analysis of Mfg. Systems		
IE 643	Performance Analysis of Mfg. Systems		
IE 816	Topic: Supply Chain Optimization		
OTM 646	Logistics Strategies		
OTM 765	Topic: Global Mfg. and Logistics		
Auth Substitution			
Computer Integrated Mfg. Processes and Technology			
IE 415	Intro to Mfg. Systems, Design & Analysis		
IE 605	Computer Integrated Manufacturing		
IE 612	Info. Sensing and Analysis for Man Processes		
IE 655	Advanced CAD/CAM		
IE 691	TOPIC: Information Sensing and Technology		
ME 417	Introduction to Polymer Processing		
ME 418	Engineering Design with Polymers		
ME 419	Fundamentals of Injection Molding		
ME 439	Introduction to Robotics		
ME 447	Computer Control of Machines & Processes		
ME 601	Topic: Rapid Prototyping and Adv. Mnf'g		
ME 739	Advanced Automation and Robotics		
Auth Substitution			
Manufacturing System Management			
IE 513	Analysis of Capital Investments		
IE 515	Engr Mgmt-Continuous Process Improvement		
IE 658/OTM 758	Managing Tech Change in Mfg Systems		
OTM 654	Production Planning & Control		
OTM 700	Operations Management		
Auth Substitution			
Information & Decision Technology			
CS 302	Introduction to Programming		
CS 367	Introduction to Data Structures		
CS 540	Introduction to artificial Intelligence		
CS 564	Database Mgmt System: Design & Implementation		
IE 516	Introduction to Decision Analysis		
IE 691	Topic: Financial Engineering in Mfg. Operations		
IE 671	E-Commerce: Tech, Strategies & Appl.		
IE 672	E-Business Transformation: Design, Analysis & Just		
INFOSYS 765	Topic: Developing E-Commerce Sys.		
OTM 765	Database Concepts for Oper Management		
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BREADTH COURSE (3 cr; select one course)			
Human Factors & Ergonomics in Manufacturing			
IE 555	Human Performance and Accident Causation		
IE 564	Ergonomics in Manufacturing & Industry		
IE 653	Organization & Job Design		
IE 764	Occupational Biomechanics		
Auth Substitution			
Quality in Manufacturing			
IE 512	Inspection, Quality Control & Reliability		
IE 520	Quality Assurance Systems		
IE 575	Introduction to Quality Engineering		
OTM 770	Intro to Quality & Productivity Improvement		
Auth Substitution			

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

EXIT REQUIREMENTS

To complete the MS program, a GPA of 3.20 or above in graduate level courses and 30 degree credits are required with 15 degree credits in the IE Department.

JOB PLACEMENT

Contact:

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

Contact:

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>