
Manufacturing Engineering

University of Wisconsin-Stout

Advisory Board Meeting
Spring 2006

Agenda

- Welcome - introductions
 - Approval of Fall 2005 Meeting Minutes
 - MS MfgE
 - Program status report
 - Program Review Committee Report
 - Spring activities, Recruiting
 - Advanced STEPS
 - Adjourn
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MS Manufacturing Engineering

Program of Study

The program requires 30 hours of graduate credit, 15 of which must be graduate-only (700 level), with an overall grade point average of 3.0 or better. Fifteen credits are included in the core curriculum, six at credits are in the management component, and no less than nine credits are to be taken from one of four of the following elective depth areas

- Engineering Materials and Processes
 - Mechanical Design
 - System Analysis and Design
 - Automation and Control
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MS Manufacturing Engineering

■ Entrance Requirements

- Admission requirements include a bachelor's degree in engineering, a minimum grade point average of 3.0, and, if English is a second language, a TOEFL score of 500 or higher. The GRE is not required. Applicants with undergraduate degrees in fields closely related to engineering and with appropriate engineering experience in manufacturing or with a grade point average below 3.0 may be admitted at the discretion of the program director.
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MS Manufacturing Engineering

■ Program Requirements

- Because the program will be presented through a variety of distance delivery means, including on-line courses and courses provided by streaming video, access to a dedicated computer by each student is necessary. In addition, a high speed internet connection, either at home or at the student's place of employment, will be essential.
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MS Manufacturing Engineering

Course List Table

Program Title: Manufacturing Engineering

Proposed Implementation/Catalog Year: Fall 2006

Existing Mfg Eng Program	Cr.	Proposed Action	Revised Mfg Eng Program	Cr.
A. CORE COURSE (14 Credits)			A. CORE COURSE (15 Credits)	
MFGE-7xx Engineering Analysis	3	Dropped		
INMGT-565 Project Management	2	Credit Change	INMGT-565 Project Management	3
INMGT-700 System Analysis & Design	3	No Change	INMGT-700 System Analysis & Design	3
MFGE-7xx Mfg Syst Dsn problems	3	Name Change	CTEM-700 Mfg Syst Dsn Problems	3
MFGE-770 Industrial Project	3	No Change	MFGE-770 Industrial Project	3
		Add Course	MATH-7xx Advanced Diff Eq or	3
			MATH-7xx Advanced P & S or	3
			MATH-7xx Advanced Linear Algebra	3
Total	14		Total	15

MS MfgE course list table (cont.)

B.CORE MANAGEMENT COMPONENT (6 Credits)			B.CORE MANAGEMENT COMPONENT(6 Credits)	
INMGT-520 Quality Assurance	3	Name Change	INMGT-520 Quality Tools	3
INMGT-525 Quality Management	3	No Change	INMGT-525 Quality Management	3
INMGT-705 Enterprise Resource Planning	3	No Change	INMGT-705 Enterprise Resource Planning	3
INMGT-600 Organization Leadership or	3	No change	INMGT-600 Organization Leadership or	3
INMGT-630 Employment Involvement or	2	No change	INMGT-630 Employment Involvement or	2
INMGT-750 Organizational Devel	3	No change	INMGT-750 Organizational Devel or	3
		Add Course	INMGT-616 People Process Culture	3
RC-583 Voluntary OSHA Compliance	2	Dropped		
RC-587 Human Factors Engineering	3	Dropped		
		Add New Selective	BUACT-7xx Adv Cost Analysis	3
		Add New Selective	INMGT-610 Six Sigma	3
Total	6		Total	6

MS MfgE course list table (cont.)

C. DEPTH AREA(12 credits)			C. DEPTH AREA (9 CREDITS; NO LESS THAN 6 CREDITS IN ONE AREA)	
Manufacturing System Design		Name Change	Manufacturing Competitiveness	
MFGE-640 Design and Simulation of Manufacturing Systems or	3	Dropped		
MFGT-540 Design and Simulation of Manufacturing Cells				
MFGE-641 Design of Jigs and Fixtures	3	Dropped		
CADD-636 Computer Aided Design Problems	3	Dropped		
INMGT-422/622 Quality Engineering	3	Dropped		
XXX-7XX Design of Experiments	3	Dropped		
XXX-7XX Taguchi Experimentation	3	Dropped		
		Add New Selective	MFGE-7xx Value Stream Mapping	3
		Add New Selective	MFGE-7xx Lean Manufacturing	3
		Add New Selective	MFGE-7xx Supply Chain Engineering	3
Engineering Materials and Processes			Engineering Materials and Processes	
MFGE-7xx Properties and Selection of Materials	2	Dropped		
MFGE-7xx Special Topics in Materials Processing	4	Dropped		
MFGE-7xx Material Processing Seminar	.5-2	Dropped		
		Add New Selective	MFGE-7xx Emerging Mfg Materials	3
		Add New Selective	MFGE-7xx Emerging Mfg Processes	3
		Add New Selective	MFGE-7xx Polymer Engineering	3

MS MfgE course list table (cont.)

Mechanical Design			Mechanical Design	
MECH-532 Mechanical Design	4	Dropped		
MECH-592 Mechanics of Machinery I	3	Dropped		
MECH-593 Mechanics of Machinery II	3	Dropped		
MECH-537 Mechanical Design Drafting	2	Dropped		
MECH-7xx Advanced Computer Aided Engineering	3	Dropped		
		Add New Selective	MFGE-7xx Finite Element Methods	3
		Add New Selective	MFGE-7xx Adv Mech of Materials	3
		Add New Selective	MFGE-7xx Machine Design	3
Automation and Control			Automation and Control	
ELEC-541 Electrical and Mechanical Interface Devices	2	Dropped		
MFGE-563 Controls and Instrumentation	4	Dropped		
MFGE-7xx Classical Control Theory with Applications	3	No Change	MFGE-7xx Classical Control Theory with Applications	3
MFGE-7xx Theory and Applications of Robots	3	Rename	MFGE-7xx Robot Theory & App	3

Program Status

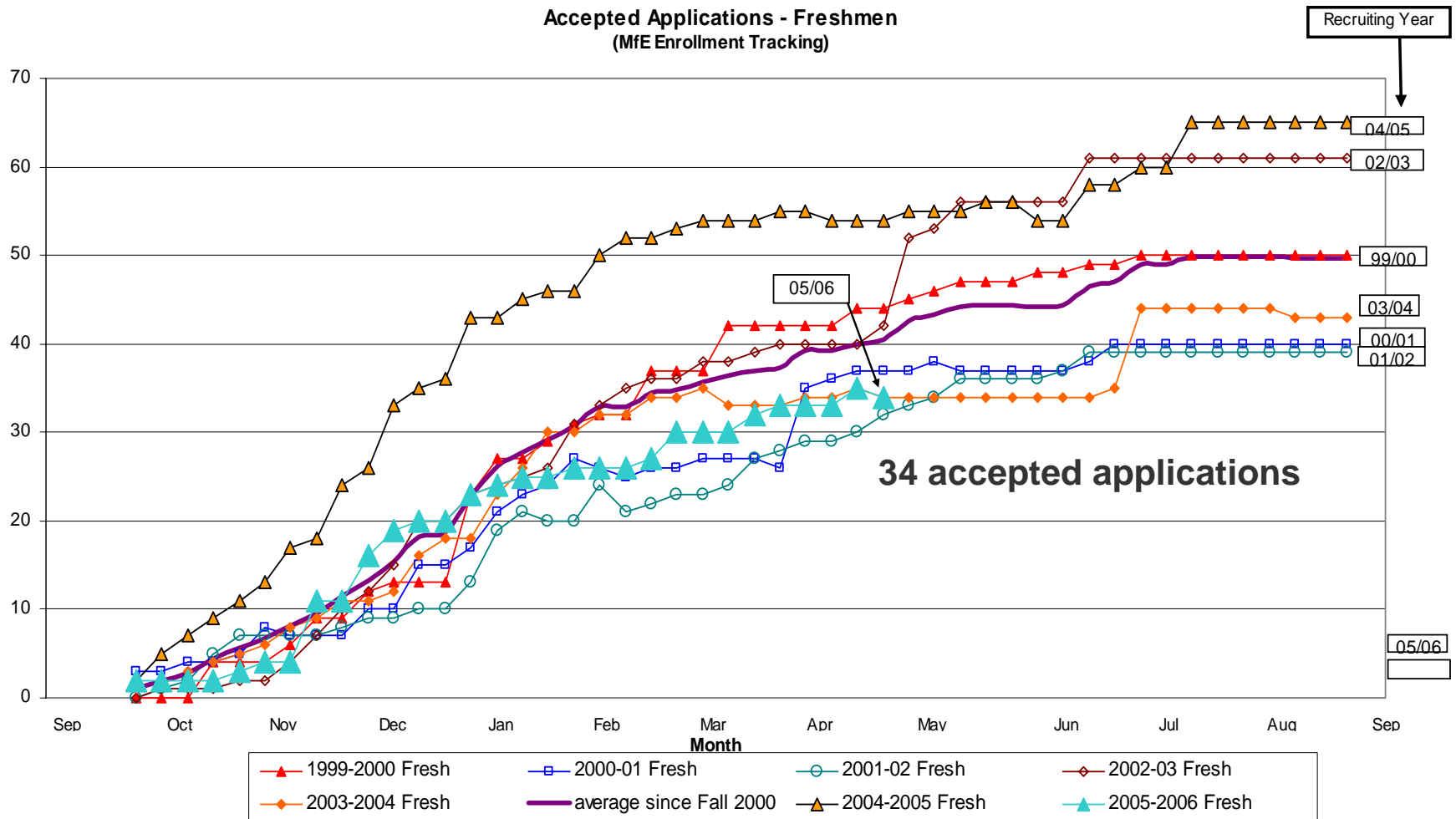
- Enrollment

- Approx. 150 students in program this semester
- 13 graduating Saturday



Acceptance History

2005/2006 current recruitment year



Placement and Co-op reports

2005 report handouts

Program Review Committee Report

Spring Activities

- Planning sessions for Fall ASEE Sectional Conference in conjunction with the NWMOC
- 3 faculty search and screen committees
 - Electrical and Computer Engineering
 - CADD
 - Packaging
- MfgE degree in Green Bay
- Recruiting
 - Bradley Tech, Milwaukee
 - Milwaukee Public Schools at STOUT
 - Bradley Tech students at STOUT
 - Hartford HS
 - Spring Engineering and Technology Career Day
 - Nearly 100 students attended MfgE sessions
- Discover Wisconsin filming
- Prent Industries (Janesville) tour by Rich, Bob Meyer and Ken Neuberg
- Scotland student tour is a go

SWE – student chapter

- SWE chapter up and running!
 - Officially recognized campus organization this spring
- Science Olympiad - Saturday April 29th 2006
- Founder's Day
 - -Pictures
 - -Brochures
 - -Décor
 - -SWE Sweets *Erin*
- Mentoring
 - -send letters to upcoming students *Erin*
 - -16 new freshman girls in engineering programs
 - -call students twice, beginning and end of summer
- SWEat
 - -machining intro for new girl engineering students
 - -make a project on the machines
 - -eat pizza
 - -talk about how cool SWE is
- End of Year Shindig - Point Comfort Park

SME – student chapter

■ 6 Tours:

- ❑ Wal-Mart Distribution Center Joint Tour - Stout, Rib Mtn, St. Paul, Indianhead chapters
- ❑ Leinenkugel's (Steve, Aaron M, Chris W went twice)
- ❑ Remmele Engineering
- ❑ Prototype Solutions Group
- ❑ Stout Central Heating Plant
- ❑ Phillips Multi-Shot Eau Claire

■ 3 Speakers:

- ❑ Lamont Meinen-Career Services (resume)
- ❑ Matt Knudson- Phillips Plastics (machine vision)
- ❑ Joe Haag, Dan Eke-Travel Tags (printing processes)

■ Misc:

- ❑ Recruitment Cookout
- ❑ Recruitment Blowing Night
- ❑ FLL Concessions, Setup, Tear down, misc tasks
- ❑ Certification Exam (7 exam takers)
- ❑ Parker Hannifin grant
- ❑ New SME Display Board
- ❑ Ice Cream Social
- ❑ Attended SME Indianhead Board Meetings to learn more about how they take care of business
- ❑ Directors Scholarship Recipient
- ❑ A bunch of new members
- ❑ Gave away a bunch of free t-shirts

Future plans/activities

- Fall Manufacturing Conference
 - Possible Spring Career Conference specifically for engineering & technology majors
 - Organized by SME, SWE and IOPP?
 - Seminars/workshops suggestions to be hosted on campus?
 - Advanced STEPS (Dan)
 - Challenge everyone to suggest or bring a new industrial board member.
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Next Advisory Board Meeting?

■ **Friday Dec. 15**

- Capstone presentations in morning.
 - Probably 10:00 am ?
 - Advisory Board 1:00 pm
 - Does anyone have an alternate time suggestion?
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- Adjourn – thanks for coming!
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