


## Memorandum

**Date:** June 18, 2012

**To:** Dr. Dianne Harrison  
President

**From:**   
Dr. Cynthia Rawitch  
Vice Provost

**Subject:** Final Memorandum of Understanding – MS Manufacturing Systems Engineering

The final phase of the program review process for the Master of Science in Manufacturing Systems Engineering occurred on April 9, 2012. At this time the commendations and recommendations from the external reviewers' report were discussed. Present at the meeting were: Cynthia Rawitch, Vice Provost, Academic Affairs; S.K. Ramesh, Dean, and Nagwa Bekir, Associate Dean, College of Engineering and Computer Science; Ileana Costea, Chair, Department of Manufacturing Systems Engineering & Management; Hedy Carpenter, Graduate Studies; Jared Rappaport, GSC Representative; Bonnie Paller, Director of Academic Assessment and Program Review; and Eli Bartle, Program Review Coordinator.

Dr. Rawitch congratulated the program on its many strengths as identified by the commendations in the external reviewers' report. A discussion of the reviewers' commendations and recommendations followed.

The attached MOU is the final understanding between the department and the college.

Attachment: MOU

**Cc:** S.K. Ramesh, Dean, College of Engineering and Computer Science  
Ileana Costea, Chair, Department of Manufacturing Systems Engineering & Management  
Jared Rappaport, GSC Representative  
Bonnie Paller, Director of Academic Assessment and Program Review

**Master of Science in Manufacturing Systems Engineering (MS-MSE)  
Department of Manufacturing Systems Engineering and Management  
Program Review – 2011-2012**

**Memorandum of Understanding**

**Commendations to the Department for:**

- Enrollment growth from 24 in 2006, when it became a stand-alone program, to 54 in 2010, including established connections with overseas institutions.
- A clearly defined self-study and assessment document.
- Helping students to integrate science, engineering, mathematics, and technology principles.
- Development of a sense of community within the program.
- Actively pursuing industry partnerships to provide experiences for faculty and internships for students.
- Short- and long-term planning efforts, curriculum restructuring, course development and laboratory planning.
- Consistency of program mission, vision, and goals.
- Maintaining this program as a career-oriented program.

**Recommendations: The Department should:**

- Continue efforts of outreach and recruitment to improve and maintain the program enrollment level.

- Consider modifying courses to include global standards such as ISO and global supply chain management.
- Offer interdisciplinary courses that provide MS-MSE students the opportunity to work with students and faculty in other disciplines.
- Consider peer mentoring for new students.
- Develop a long-range plan for equipment and system upgrades.
- Continue building relationships with the industry. As feasible, provide more support to encourage faculty to develop these relationships.
- Consider providing an on-campus space dedicated to the graduate students.
- Consider offering online courses.
- Continue to review and refine assessment procedures to provide a full cycle from collection to implementation of the results.
- Continue monitoring course scheduling and sequencing to serve students.