MANUFACTURING ENGINEERING (M.S.)

The master of science degree program in manufacturing engineering is built on a core designed to provide a firm foundation in the various elements of manufacturing and systems engineering.

Admission Requirements

Admission to this program is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission). Applicants with a baccalaureate degree in engineering from an institution accredited by the Accreditation Board for Engineering and Technology (ABET) and who have earned a grade point average of at least 2.8 in the upper division of their undergraduate program are eligible for admission. GRE Exam is not required for applicants. However, a high GRE score will be considered as an incentive for the evaluation process. Additionally, applicants with an undergraduate degree in mathematics, physics, computer science, or another discipline with a strong analytical base may be considered for admission.

Because of the interdisciplinary nature of the program, applicants whose undergraduate education is deficient in prerequisites for graduate classes may be required to take background courses which will NOT count toward the thirty-two credit degree requirement.

The Master of Science in Manufacturing Engineering is offered under the following options:

**Plan A:** Thirty-two credits including up to eight thesis credits.

**Plan C:** Thirty-two credits of course work.

Both options require a common core of eight credits (for the general option, twelve core credits) as described below. While the core provides breadth to the student’s program, depth of understanding is acquired through completion of the required twenty-four credits in one of the specialization areas. Students interested in an area not among the specializations cited should elect the general option. A minimum twenty credits of specialization are required and up to eight credits may be earned in courses outside the Industrial and Systems Engineering Department, but only with prior approval of the graduate advisor. All course work must be completed in accordance with the regulations of the Graduate School (http://bulletins.wayne.edu/graduate/general-information/academic-regulations) and the College of Engineering (http://bulletins.wayne.edu/graduate/college-engineering/academic-regulations).

**Thesis Option:** If a thesis option (Plan A) is selected, up to eight credits of Master’s Thesis Research and Direction (IE 8999) may be required, which integrates with the student’s plan of work to create depth of understanding in an area relevant to the program objective. In such cases, an individually-designed program of study must be approved by both the thesis research advisor and the M.S. program officer.