

INDUSTRIAL ENGINEERING (MS)

Master of Science in Industrial Engineering (IE MS)

Unit: Speed School of Engineering (<http://louisville.edu/speed>) (GS)

Department: Industrial Engineering (<http://louisville.edu/speed/industrial>)

Program Website (<http://louisville.edu/speed/industrial/gradStudies>)

Academic Plan Code(s): IE_ _MS

Program Information

General Information

The MS degree program is intended for persons having an accredited baccalaureate degree in industrial engineering, but is available to those with other backgrounds. Applicants with other backgrounds should plan on taking some undergraduate background coursework. Students interested in the MS degree program should consult the Director of Graduate Studies in the Department of Industrial Engineering. The University of Louisville is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award master's degrees.

Degree Requirements

The program of study must be completed with a 3.00 GPA or better for all graduate courses used to satisfy degree requirements. Additionally, the program of study must be completed with a 3.00 GPA or better for all academic work attempted in graduate studies.

The requirements for the Master of Science degree are discussed in more detail in the Degree Requirements (<http://catalog.louisville.edu/graduate/general-policies-procedures-requirements/degree-requirements>) section of this catalog.

Admission Standards

The admission standards for the master of science program in industrial engineering are as follows:

- All admission applications for the program shall include:
 - A completed application (<http://louisville.edu/graduate/futurestudents/apply-materials/application>) for the Graduate School,
 - An application fee,
 - Results from the Graduate Record Examination (GRE),
 - At least two letters of recommendation, and
 - Official transcript(s) for all previous post-secondary coursework. All transcripts not in English must be certified as authentic and translated verbatim into English.
- The minimum requirement for admission is the baccalaureate degree or its equivalent from an accredited institution.
- The successful applicant will typically have an undergraduate grade point average of 2.75 or above (on a 4.00 scale).
- The successful applicant will typically have a GRE Combined Verbal and Quantitative Reasoning score of 300 or above.
- International students whose primary language is not English must show English language proficiency by either TOEFL/IELTS score or demonstration of a degree award from an acceptable English language institution. The successful applicant will typically have

a total TOEFL score of 80 or higher or overall IELTS score of 6.5 or higher.

Program Requirements

Remedial work may be specified for those applicants who, in the opinion of the faculty, do not have a sufficient background. The minimum curricular requirements for the master's program are:

Code	Title	Hours
IE 515	Operations Research Methods	3
or IE 610	Foundations of Optimization I	
IE 516	Stochastic Operations Research	3
IE 563	Experimental Design in Engineering	3
IE 5XX and/or 6XX Electives ¹		6
5XX and/or 6XX Technical Electives ¹		9
Select one of the following:		6
<i>Thesis Option</i>		
IE 690	Master of Science Thesis in Industrial Engineering ²	
<i>Non-Thesis Option</i>		
IE 699	Industrial Engineering Master's Degree Project 6XX Technical Elective ¹	
Minimum Total Hours		30

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- Electives must be chosen so that at least one-half of the credits counted toward the degree, exclusive of thesis, are 600-level; at least fifteen (15) credit hours of coursework must be in IE.
- For the thesis option, a student is required to select both an approved MS thesis topic and the director and members of the thesis committee. The thesis director must give approval for enrollment in IE 690.