

# MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

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Department: Industrial and Manufacturing Engineering and Technology  
(<https://catalog.bradley.edu/graduate/engineering-technology/industrial-manufacturing-engineering/>)

The MSIE degree is a 30-hour program that strengthens your understanding of industrial systems, both in the manufacturing and service sectors, including their business and financial practices. Your training gives you tools to improve performance of organizations by improving the cost-effectiveness of optimizing their operations without compromising the quality of products and services.

## MS IE Degree Requirements

The MSIE program offers students three options: a thesis option, a project option or an all-course option. Each of these options require a total of 30 credit hours. A minimum grade point average of 3.00 is required for degree completion. The specific requirements for each option are as follows:

### MSIE Core Courses

Code	Title	Hours
IME 511	Probability and Statistics for Analytics	3.0
IME 512	Design and Analysis of Experiments	3.0
IME 514	Introduction to Operations Research	3.0
Total Hours		9

### Thesis Option

- IME 699 Thesis - 6 hrs.
- Approved Elective Courses – 15 hrs.
- Comprehensive Assessment: Thesis presentation and demonstrations.

### Research Option

- IME 691 Research - 3 hrs.
- Approved Elective Courses – 18 hrs.
- Comprehensive Assessment: Research presentation and demonstrations

### All-Course Option

- Approved Elective Courses - 21 hrs.
- Comprehensive Assessment: MS Final Examination

### Approved Elective Courses

- Any 500- or 600- level IME courses with consent of the graduate coordinator.
- A maximum of two graduate-level courses (6 credit hours) offered in other departments with consent of the graduate coordinator.