

# MS IN ENGINEERING MANAGEMENT

**Home Department:** School of Management (<https://my.kettering.edu/academics/departments/business>)

**Program Academic Advisor/Contact:**

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## Program Overview

The Master of Science Engineering Management (<https://online.kettering.edu/programs/masters/engineering-management-masters-online/?schoolsrc=42786>) program blends education in traditional business topics with technical coursework in engineering. Enrollment is limited to graduates of ABET (<http://www.abet.org>) accredited engineering programs or Kettering University graduates with majors other than management or business.

The Bachelor/Master option is available to all KUO and on-campus Engineering Management students. Kettering University BS/MS rules apply. Students in the Kettering University BS/MS Program can **not** study abroad.

## School of Management Program Policies Pursuing a Second Masters Degree in the School of Management

The School of Management encourages interested graduates of Kettering University's MS and MBA programs to pursue a second master's degree subject to the following policies (effective July 1, 2010):

- Students pursue a single master's degree at a time. Students desiring a second master's degree must complete the appl (<https://online.kettering.edu/applying/?schoolsrc=42786>)ication (<https://drive.google.com/file/d/0B8hhSHxvaasqMU9CeGpYU3o1YkU/view>).
- To earn a second master's degree, students must complete all degree requirements for the degree. In so doing, students must complete additional credit hours equal to a minimum of 40% of the second degree's requirements:
  - For MBA (or MS) graduates pursuing a 10 course MS degree – minimum of four additional courses (16 credits).
  - For MS graduates pursuing a 12 course MBA degree – minimum of five additional courses (20 credits).
- In order to gain maximum advantage from prior work, graduates must apply for their second master's degree within three years of graduating from their first degree program. The admission committee will review applicants beyond the three-year time limit to establish the currency of their course work. Students in this case may be required to complete more than 40% of the second degree's requirements.
- Students can transfer a maximum of 8 credits to Kettering University for use in their graduate studies. Pursuit of a second master's degree does not raise this limit.

## Transfer Credits

The School of Management evaluates transfer credits consistent with other sections in this catalog. In addition, the department adheres to the following policies:

- Transfer credits cannot be more than two years old.
- Transfer credits must not have been used for a degree at another institution.
- Transfer credit is only considered for courses with a grade of B or better.

## Prerequisites

A foundational level of knowledge in critical areas is required prior to beginning the Master of Science in Engineering Management (MSEM) program. This foundation helps to ensure that students are prepared to fully engage and succeed in the coursework associated with graduate programs in management. Students must have an undergraduate course in each of the following areas, or test out of the prerequisite course through self-directed study.

Areas of prerequisite knowledge:

Economics

Managerial Accounting

Statistics

Management

Marketing

## Program Curriculum Requirements

Completion of 40 credits as follows:

MS in Engineering Management

### Required Courses <sup>1,2</sup>

BUSN-659	International Business	4
FINC-619	Financial Management	4
IME-564	Ethics and Practice of Engineering	4
ISYS-669	Enterprise Information System Models	4
MGMT-639	Managing People & Organization	4
MGMT-659	Strategy	4
MRKT-679	Marketing Management	4
Total Credit Hours		28

### Global Leadership Certificate <sup>3</sup>

BUSN-689	Organizational Behavior	4
MGMT-649	Ethics and Leadership	4
MGMT-679	Leadership	4
Total Credit Hours		12

### Operations Management Certificate

IME-676	Lean Six Sigma	4
MGMT-609	Technology Management	4
MGMT-619	Project and Change Management	4
Total Credit Hours		12

### Supply Chain and ERP Certificate

IME-652	Designing Value in the Supply Chain	4
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IME-654	Enterprise Resource Planning	4
MGMT-669	Supply Chain Operations	4
Total Credit Hours		12

**Healthcare Management Certificate**

IME-656	Engineering for Healthcare Systems	4
IME-676 or MGMT-669	Lean Six Sigma Supply Chain Operations	4
HMGT-609	Healthcare Management	4
Total Credit Hours		12

- <sup>1</sup> Study Abroad credits cannot be applied to this core courses set.
- <sup>2</sup> Students admitted to the Kettering BS/MS program can count up to two (2) 500-level courses taken as an undergraduate.
- <sup>3</sup> Students affiliated with the SACM program are not allowed to enroll in this certificate.

The degree also has a study-abroad option that allows students to experience German culture and receive up to 16 credits of graduate course work.