

ENGINEERING MANAGEMENT

This degree program is available both on campus and via the Internet.

Admission

Admission to the program as a regular student requires a BS degree in engineering, or a degree in math, computer science, or a physical science earned from an accredited program with an average of *B* or better coupled with extensive experience in engineering. Each applicant will be required to present official, complete transcripts of prior college work. Two letters of recommendation are required for admission. At least one letter must be from someone familiar with the candidate's academic performance. An entering student should have completed one course in probability and statistics. Deficiencies in prerequisites may be made up after entrance to the Graduate School; however, credits received in courses elected to make up the deficiencies do not count toward the degree.

Advanced Standing

Up to six graduate credit hours (grade of *B* or better) may be transferred from another accredited institution. Students may transfer up to one-half (1/2) the minimum number of credit hours required for their master's or professional degree from U-M/non-Rackham departments and programs (including Dearborn and Flint).

Degree Requirements

The Master of Science in Engineering Management requires a minimum of 36 graduate credit hours.

Minimum Grade Requirement in addition to maintaining a minimum cumulative GPA of 3.0 or higher every semester.

1. Courses in which grades of C- or below are earned cannot be used to fulfill degree requirements.
2. No more than two courses in which grades of B- or below are earned can be used to fulfill degree requirements.

A minimum of a 3.0 cumulative GPA or higher is required at the time of graduation.

Degree Requirements

The program of study must satisfy the following distribution and course requirements:

1. Engineering Management core courses, 18 credit hours

Code	Title	Credit Hours
EMGT 500	Management for Engineers	3
EMGT 505	Systems Engineering	3
EMGT 520	Prod & Oper Engineering I	3
EMGT 525	Tot Qua Mgmt and Six Sigma	3
EMGT 570	Enterprise Information Systems	3
EMGT 580	Mgt of Prod and Proc Design	3

2. Business requirements, 12 credit hours

Code	Title	Credit Hours
ACC 505	Devel & Interp Financial Info	3

Choose 3 courses from the list below:

BE 530	Econ Analysis: Firm & Consumer	3
FIN 531	Fin Fundament & Value Creation	3
HRM 561	Human Resource Management	3
MKT 515	Marketing Management	3
OB 510	Organization Behavior	3

3. Capstone Project, 2 credit hours

Code	Title	Credit Hours
EMGT 591	Capstone Project in EMGT	2

4. Electives, 3 credit hours

Code	Title	Credit Hours
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Approved Electives, take one class from the list below:

IMSE 501	Human Factors & Ergonomics	3
IMSE 505	Optimization	3
IMSE 511	Design and Analysis of Exp	3
IMSE 514	Multivariate Statistics	3
IMSE 515	Fundamentals of Program Mgt	3
IMSE 516	Project Management and Control	3
IMSE 517	Managing Global Programs	3
IMSE 519	Quan Meth in Quality Engin	3
IMSE 5205	Eng Risk-Benefit Analysis	3
IMSE 5215	Program Budget, Cost Est & Con	3
IMSE 538	Intelligent Manufacturing	3
IMSE 545	Vehicle Ergonomics I	3
IMSE 546	Safety Engineering	3
IMSE 577	Human-Computer Interaction	3
IMSE 5655	Supply Chain Management	3
IMSE 567	Reliability Analysis	3
IMSE 581	Prod & Oper Engineering II	3
IMSE 593	Vehicle Package Engineering	3
IMSE 606	Advanced Stochastic Processes	3

Additional electives from units in UM-Dearborn could also be considered with advisors approval.

5. Work Experience requirement—minimum of two years in an engineering job function for students with an undergraduate degree in a field other than engineering.
6. Thesis or Research Essay—students, with the approval of their graduate advisor, may elect a master's thesis for no more than five credit hours.