Master of Science in Engineering Management

The Engineering Management M.S. program provides superior graduate education for technical managers from engineering, science, mathematics, and computer science. EMGT graduates are more effective managers in technology-based organizations and are better able to promote entrepreneurial activities for new businesses.

The EMGT program integrates management with technology by focusing on 3 dimensions:

1. Technical: an understanding of and proficiency in engineering and science.
2. Human: the ability to build a collaborative effort within a group.
3. Conceptual: the ability to apply analytical thought to the management process and to the enterprise as a total system.

Courses are offered in various formats including in person in Overland Park on the KU Edwards Campus and online. Classes are taught by graduate faculty members of the School of Professional Studies and members of the professional community. Faculty biographical information and other program information may be viewed on the program's website https://sps.ku.edu/programs/eng-tech-mgmt (https://sps.ku.edu/programs/eng-tech-mgmt/).

Graduate Admission Requirements

An applicant seeking to pursue graduate study may be admitted as either a degree-seeking or non-degree seeking student. Policies and procedures of Graduate Studies govern the process of Graduate admission. These may be found in the Graduate Studies (https://catalog.ku.edu/graduate-studies/) section of the online catalog. For more information on admission to a graduate program at KU, see the policy on Admission to Graduate Study (http://policy.ku.edu/graduate-studies/admission-to-graduate-study/).

International students may have enrollment specifications (i.e., full-time status, in-person courses) to meet their visa status requirements. Students needing the majority of their courses in-person are strongly advised to apply for admission to start in the Fall semester to maximize course availability.

Applications may be submitted at http://graduate.ku.edu/ku-graduate-application (http://graduate.ku.edu/ku-graduate-application/).

The following materials must be included to submit a complete application for admission:

- Official transcript from the institution where the bachelor's degree (or equivalent) was earned
- Resume
- Statement of Purpose

For admission to KU's Master of Science in Engineering Management program, applicants must have:

- Bachelor of Science undergraduate degree in engineering or related science from an accredited institution. Non-Bachelor of Science degrees or Technology degrees are considered only with a very high (e.g. 3.8) GPA and substantial experience (8-10 years) and with the applicant having completed the necessary math and science requirements.
- A 2.5 or higher undergraduate grade point average (on a 4.0 scale). Applicants may be admitted with a grade point average between 2.0 and 2.5 upon program review of their overall credentials.
- Two years full-time, post-undergraduate work experience in a technological environment.

M.S. Degree Requirements

KU Edwards Campus

The Master of Science program in Engineering Management requires 36 hours of credit hours (24 core required credit hours, 9 elective credit hours and 3 credit hours of a capstone project.)

Code	Title	Hours
Required Core Courses		
EMGT 750	Engineering Management	3
EMGT 806	Financial Aspects of Technical Management	3
EMGT 810	Applications of Quantitative Analysis in Decision Making	3
EMGT 814	Technical Leadership	3
EMGT 821	Strategic Management of Technology Projects	3
EMGT 842	Program and Systems Engineering Management	3
EMGT 846	Systems Engineering Principles	3
PFS 801	Interpersonal and Persuasive Communication Skills for Managers	3
Elective Courses: Select a Minimum of 3 Courses		**9**
EMGT 800	Special Topics in Engineering Management	
EMGT 801	Management Theory and Practice for Engineering Managers	
EMGT 802	Statistical Analysis and Prediction of Engineering Systems	
EMGT 803	Technological Forecasting and Assessment	
EMGT 804	Business Development and Marketing of Professional Services	
EMGT 805	Management of Innovation	
EMGT 807	Labor and Employee Relations for the Engineering Manager	
EMGT 808	Quality Management	
EMGT 811	Engineering Systems Simulation	
EMGT 812	Law and the Design Professional	
EMGT 815	Business Relationships and Selling Skills	
EMGT 819	Essential Tools for Consulting Engineers	
EMGT 824	Product Marketing for Engineering Managers	
EMGT 826	Management of New Product Development Projects	
EMGT 840	Systems Modeling	
EMGT 847	Systems Engineering Applications	
EMGT 850	Environmental Issues for Engineering Managers	
EMGT 860	Special Problems in Engineering Management	
EMGT 862	Manufacturing Systems Integration	
EMGT 867	Advanced Operations Management	
Capstone		

EMGT 895	Capstone Project	3
Total Hours		**36**

At the completion of this program, students will be able to:

- Design, produce, and assess original plans and initiatives drawing from the domains in the current edition of the ASEM A Guide to the Engineering Management Body of Knowledge.
- Develop and implement team-based work methods and initiatives.
- Build unique technical and managerial skills through specialty courses of personal interest.
- Expand industry and global perspectives on business competition and environmental dynamics.
- Effectively communicate interpersonally and with groups, both verbally and in writing.