

# Master of Science in Engineering Management

## Engineering Management Graduate Program

### KU Edwards Campus

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.

The EMGT program offers these emphasis areas: consulting engineering services, manufacturing/process engineering and systems and information technology.

Courses are offered in various formats including in person in Overland Park on the KU Edwards Campus (<http://edwardscampus.ku.edu/>) and online. In-person courses are also recorded and live-streamed. Classes are taught by Graduate Faculty members of the School of Professional Studies and members of the professional community.

## 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 (<http://catalog.ku.edu/graduate-studies/>) section of the online catalog.

For more information on admission to a graduate certificate program at KU, see the policy on Admission to Graduate Study (<http://policy.ku.edu/graduate-studies/admission-to-graduate-study/>). Applications may be submitted at <http://graduate.ku.edu/ku-graduate-application> (<http://graduate.ku.edu/ku-graduate-application/>).

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

1. 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.

2. 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.
3. Two years full-time, post-undergraduate work experience in a technological environment.
4. International students must also meet the English requirement by taking either the Test of English as a Foreign Language (TOEFL), the International English Language Testing System (IELTS) or have a degree from an English speaking institution. Financial support requirements must also be met.

Engineering Management (EMGT) does not require the GRE or GMAT.

A completed application includes the application fee, application form, résumé, 1 original transcript, and a statement of purpose. International students must also meet English and financial requirements. Course schedules, faculty biographical information, and other program information may be requested from the EMGT office or downloaded from the program's website.

International students and students who indicated English as a second language, are required to show proof of English proficiency for admission purposes and must check-in at the Applied English Center (<https://aec.ku.edu/>) (AEC) upon arrival on campus for orientation. This process serves to confirm each student's level of English proficiency and determine whether English courses will be included as a requirement of the student's academic program. Note: Students who demonstrate English proficiency **at the waiver level** or who have earned a degree from one of the specified English-speaking countries listed in the policy (<http://policy.ku.edu/graduate-studies/english-proficiency-international-students/>) are not required to check in at the AEC (see eligibility requirements on the Graduate Studies website (<https://graduate.ku.edu/english-proficiency-requirements/>)).

**The University of Kansas Edwards Campus  
Engineering Management  
12600 Quivira Road  
Overland Park, KS 66213**

## M.S. Degree Requirements

### KU Edwards Campus

The Master of Science program in Engineering Management requires 33 hours of credits (12 credits in of interdisciplinary career skills courses, 9 credits of foundation of engineering management courses, 9 credits in electives and 3 hours of a field project or case study) with a final oral examination.

Code	Title	Hours
<b>Interdisciplinary Career Skills Courses (12 credit hours)</b>		<b>12</b>
PFS 801	Interpersonal and Persuasive Communication Skills for Managers	
PFS 802	Managing Teams and Leading People	
PFS 803	Financial Management for Professional Success	
PFS 804	Project Management for Professionals	
<b>Foundations of Engineering Management Courses</b>		<b>9</b>
EMGT 810	Applications of Quantitative Analysis in Decision Making	
EMGT 820	Developing the Engineering Manager	
EMGT 821	Strategic Analysis of Technology Projects	

<b>Required Electives: Select 9 credit hours of electives.</b>	<b>9</b>
<b>Capstone</b>	<b>3</b>
EMGT 830 Case Studies in Engineering Management (prerequisite xx number of hours)	
EMGT 835 Field Project (M.S.)	
<b>Total Hours</b>	<b>33</b>

## Required Electives (9 credits)

### Electives

All elective courses outside of the EMGT program must be listed as graduate courses, taken for graduate credit, and approved by an EMGT faculty member in order to apply toward the Master of Science in Engineering Management degree. Approved EMGT elective courses are listed below:

<b>Code</b>	<b>Title</b>	<b>Hours</b>
EMGT 801	Management Theory and Practice for Engineering Managers	3
EMGT 802	Statistical Analysis and Prediction of Engineering Systems	3
EMGT 803	Technological Forecasting and Assessment	3
EMGT 804	Business Development and Marketing of Professional Services	3
EMGT 805	Management of Innovation	3
EMGT 807	Labor and Employee Relations for the Engineering Manager	3
EMGT 808	Quality Management	3
EMGT 811	Engineering Systems Simulation	3
EMGT 812	Law and the Design Professional	3
EMGT 814	Leadership Techniques and Methods for the Engineering Manager	3
EMGT 815	Business Relationships and Selling Skills	3
EMGT 824	Product Marketing for Engineering Managers	3
EMGT 826	Management of New Product Development Projects	3
EMGT 840	Systems Approach to Engineering	3
EMGT 850	Environmental Issues for Engineering Managers	3
EMGT 860	Special Problems in Engineering Management	1-4
EMGT 862	Manufacturing Systems Integration	3
EMGT 867	Advanced Operations Management	3