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MS IN ENGINEERING MANAGEMENT

Home Department: School of Management

Program Academic Advisor/Contact:

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Program Overview

The Master of Science Engineering Management program combines individuals' professional engineering knowledge with education in the topics necessary to effectively manage in the contemporary technology driven business environment. Enrollment is limited to graduates of ABET accredited engineering programs or Kettering University graduates with majors in an engineering discipline. Six certificate options are embedded in the Engineering Management degree program.

Prerequisites

A foundational level of knowledge in critical areas is <u>required prior to beginning</u> 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 complete MGMT-510 Foundations of Business, or test out of individual prerequisite courses through self-directed study.

Areas of prerequisite knowledge:

Code	Title	Credit Hours
Economics		
Managerial Accoun	iting	
Statistics		
Management		
Marketing		

Program Curriculum Requirements

The curriculum for the Engineering Management program involves 10 courses totaling 40 credit hours including:

- · Seven core courses for 28 credits, plus
- · Three certificate courses for 12 credits.

Required Core Courses

Code Required Core Course	Title es ^{1,2,3}	Credit Hours
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 (Capstone)	4

internomp in Management	
Marketing Management	4
	28
Title	Credit
4	Hours
Certificate (Available Online Only) 4	
Organizational Behavior	4
Ethics and Leadership	4
Leadership	4
Credit Hours Subtotal:	12
ement Certificate	
Operations Management	4
Lean Six Sigma	
Technology Management	4
Project Management	4
Credit Hours Subtotal:	12
C Certificate (Available On-Campus Only) s from the followings	
Production System Design	4
Enterprise Resource Planning	4
	Marketing Management Title Certificate (Available Online Only) 4 Organizational Behavior Ethics and Leadership Leadership Credit Hours Subtotal: ement Certificate Operations Management Lean Six Sigma Technology Management Project Management Credit Hours Subtotal: Cred

Supply Chain Management

Technology Leadership Certificate (Available On-Campus

Tools for Managing the Supply Chain

Credit Hours Subtotal:

Internship in Management

or MGMT-693

MGMT-669

or IME-653

or MGMT-625

Only)				
Students select three IME, or MECH.	e 600 level courses from CE, CS, ECE, EE,	12		
	Credit Hours Subtotal:	12		
Lean Principles for H Only)	lealthcare Certificate (Available Online			
IME-656	Engineering for Healthcare Systems	4		
IME-676	Lean Six Sigma	4		
or MGMT-669	Supply Chain Management			
HMGT-609	Healthcare Management	4		
	Credit Hours Subtotal:	12		
Data Analytics Certificate				
CS-601	Programming Methods for Data Science	4		
MGMT-623	Data Analytics	4		
MGMT-624	Data Visualization	4		

Study Abroad credits cannot be applied to this core courses set.

Digital Strategy and Competitive Advantage

Credit Hours Subtotal:

³ MGMT-693 is only available to on campus students.

Students admitted to the BS-Masters program can count up to three (3) 400*/500-level courses taken as an undergraduate. *400 level courses must be part of an approved 400/600 course offering.

Students affiliated with the SACM program are not allowed to enroll in this certificate.

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