

ENGINEERING AND MANAGEMENT, MEM

Degree: Master of Engineering and Management (MEM)

Program Overview

The Master of Engineering and Management (MEM) program provides business acumen and leadership skills to uniquely position graduates for rapid advancement in technology-oriented organizations. The MEM curriculum is the result of nearly 20 years of ongoing research and interviews with hundreds of industrial stakeholders and more than 600 graduates in our thriving alumni network. This interdisciplinary, joint degree program combines the analytical expertise and rigor from the Case School of Engineering and the organizational insights of the Weatherhead School of Management. MEM is a 1 year, cohort program that starts in the fall semester. This program is designed for students with undergraduate engineering degrees and is focused on developing high-impact talent, which companies are actively seeking.

Program Requirements

Note: The requirements below are under review and may be different for students who matriculate at Case Western Reserve University during the 2024-2025 academic year and thereafter.

The program includes 36 credit hours of graded coursework. The 10-course core sequence makes up 30 of the required credit hours. For the remaining 6 credit hours, students can choose from any 400 level Case School of Engineering course for which prerequisites are met or select Weatherhead School of Management courses. Below is the list of required core courses and a representative sample of elective courses.

Code	Title	Credit Hours
Required Courses:		
MGTE 400	Leadership Assessment and Development (LEAD)	3
MGTE 405	Project Management	3
MGTE 410	Accounting, Finance, and Engineering Economics	3
MGTE 425	Understanding People and Change in Organizations	3
MGTE 430	Product and Process Design, Development, and Delivery	3
MGTE 432	Operations Research and Supply Chain Management	3
MGTE 440	Six Sigma and Quality Management	3
MGTE 450	Engineering Entrepreneurship	3
MGTE 475	Technology Marketing Strategy	3
MGTE 476	Applied Statistics for Decision Support in Data Science	3
Total Credit Hours		30

Code	Title	Credit Hours
Electives:		
DSCI 451	Exploratory Data Science	3

DSCI 452	Applied Data Science Research	3
DSCI 453	Data Science: Statistical Learning, Modeling and Prediction	3
MGMT 467	Commercialization and Intellectual Property Management	3
MGTE 411	New Venture Finance	3
MGTE 419	Entrepreneurship and The Good Life	3
MGTE 424	Chief Executive Officer	3
MGTE 435	Enterprise Resource Planning in the Supply Chain	3
MGTE 446	Models of Health Care Systems ^a	1.5
MGTE 447	Regulatory Affairs for the Biosciences ^a	1.5
MGTE 472	BioDesign	3
MGTE 473	Fundamentals of Clinical Information Systems	3
MKMR 408	Marketing Metrics	3
OPMT 475	Global Supply Chain Logistics	3
ORBH 450	Executive Leadership	3

a Courses are 1.5 credit hours and are generally taken together in one semester.