

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 every year in June. This program is designed for undergraduate engineering majors and is focused on developing high-impact talent, which companies are actively seeking. Students can enter this program after their junior year or upon graduation.

Graduate Policies

For graduate policies and procedures, please review the School of Graduate Studies section of the General Bulletin.

Program Requirements

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.

Required Core Courses (30 credit hours)

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

Elective Courses (6 credit hours)

Code	Title	Hours
IIME 411	New Venture Finance	3
IIME 415	Materials and Manufacturing Processes	3
IIME 419	Entrepreneurship and The Good Life	3
IIME 424	Chief Executive Officer	3
IIME 435	Enterprise Resource Planning in the Supply Chain	3
IIME 446	Models of Health Care Systems *	1.5
IIME 447	Regulatory Affairs for the Biosciences *	1.5
IIME 472	BioDesign	3
IIME 473	Fundamentals of Clinical Information Systems	3
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
MKMR 408	Marketing Metrics	3
OPMT 475	Global Supply Chain Logistics	3
ORBH 450	Executive Leadership	3

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