

# University of HOUSTON

## Cullen College of Engineering Department of Industrial Engineering

**Background:** Department of Industrial Engineering at the Cullen College of Engineering offers a professional degree graduate program in Engineering Management (MEMGMT) . The goal of the degree program is to:

1. To meet the immediate need of local industries in trained engineering managers
2. To address the need of integrating the engineering and management functions for high technology organizations.
3. To provide skills and the necessary knowledge to manage functions within manufacturing and service organizations.

Masters in Engineering Management is also a 30-credit hour graduate degree. A qualified student with B.S. degree can complete MEM (Course-Based) in 30 hours as given below:

30 Credit Hours	List of Course
6 required core courses in IE Department	IEEM 6330 – Managing Engineering Functions IEEM 6331 - Quantitative Methods for Engineering Management INDE 6332 - Engineering Project Management IEEM 6335 - Engineering Management of Organizations IEEM 6360 - Data Analytics for Engineering Management INDE 6380 - Accounting for Engineering Managers
2 technical courses offered by Cullen College of Engineering	All technical courses must be approved by the MEM Program Director.
2 management courses from Bauer College of Business	MANA 7329 - Behavioral Finance MANA 7330 - Legal Environment of Management MANA 7334 – Management of Development & Career Planning MANA 7336 - Human Resource Management MANA 7339 - Leadership Development MANA 7340 - Management of High Technology Organizations MANA 7346 - Global Human Resource Management MANA 7347 - Managerial Ethics and Corporate Social Responsibility

### Admission Requirements

- Undergraduate degree in engineering, mathematics, computer science, physical sciences.
- Applications with degrees in other disciplines will be considered case-by-case basis.
- The Cullen College of Engineering requires a minimum of 3.0/4.0 G.P.A. over the last 60 semester hours or 90-quarter hours for the admission to the graduate programs.

- A minimum of 3 years of engineering work experience in a responsible position with two letters of recommendations: one from an immediate supervisor and one from someone familiar with the candidate's academic performance
- Students who transfer from another graduate program must have at least a 3.0/4.0 G.P.A. on all graduate work completed.
- TOFEL, GRE or GMAT is required for all international applicants.

Students without B.S. in engineering, mathematics, computer science, physical sciences must take two leveling courses in mathematical modeling and probability and statistics.

### **Degree Description**

Masters of Engineering Management is a 30-credit hour graduate program of face-to-face (Katy Campus) and online classes. The Master of Engineering Management degree requires a minimum of 30 graduate credit hours. A cumulative grade point average of "B" or better is required to graduate. **Each student is responsible for being familiar with the degree requirements as stated in the current [UH graduate catalog](#).**