

# ENGINEERING MANAGEMENT

## Engineering Management Master's Degree

Administered by the Department of Industrial and Manufacturing Systems Engineering

The Engineering Management Program focuses on developing an individual's engineering, science, and management skills so they can succeed in a technology driven environment. There is a growing need for engineers that can build multi-disciplinary design teams, then lead those teams to solve technical and business challenges. The Iowa State University Master of Engineering in Engineering Management program is designed to train leaders who can meet both the technical and managerial challenges in developing modern complex engineered systems. The program can be completed online or in residence, part-time or full-time.

### Admission Requirements

To be considered for admission, the applicant should have a bachelor's degree in engineering or related field from a college, university, or technical school of recognized standing. Non-engineering backgrounds will be considered on a case-by-case basis. High academic achievement or other persuasive evidence of professional accomplishments is expected for admission to the program. The GRE is not required.

Applicants for admission to this program apply through the ISU Graduate College. Each applicant must submit:

- Application and application fee
- Official academic transcripts
- Three letters of recommendation
- Resume

Applications should be submitted as early as possible before the beginning of the semester for which admission is sought. Individuals may also take up to nine credits at Iowa State as a non-degree seeking student and then transfer them to the program when they are admitted. (<https://iowastateonline.iastate.edu/apply-and-enroll/>)

### Degree Requirements

Engineering Management Core:

Intro/Core (required first year)

IE 5630	Engineering and Systems Management	3
IE 5650	Systems Engineering and Analysis	3
Core (required)		
SCM 5240	Strategic Process Analysis and Improvement	3
IE 5700	Systems Engineering and Project Management	3

MGMT 5830	Formulating and Implementing Innovation Strategies	3
ACCT 5810	Accounting for Decision Making	3
Electives		
IE 5200	Engineering Problem Solving with R	3
IE 5600	Engineering Risk Analysis	3
IE 5610	Total Quality Management	3
IE 5640	Decision Analysis	3
IE 5720	Design and Evaluation of Human-Computer Interaction	3
IE 5770	Human Factors	3
IE 5810	e-Commerce Systems Engineering	3
CONE 3800	Engineering Law	3
FIN 5010	Financial Valuation and Corporate Financial Decisions	3
MKT 5010	Marketing	3
MGMT 5030	Professional Responsibility in Business and Society (One course from any graduate program)	3
One course from any graduate program		3