



TEXAS A&M
UNIVERSITY
KINGSVILLE®

Frank H. Dotterweich College of Engineering

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

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Department Overview

The Department of Mechanical and Industrial Engineering offers both a regular on-campus Industrial Engineering Master of Science program and a 100% online Industrial Engineering Master of Science program. They are designed to instill fundamental concepts as well as practical knowledge of modern engineering, and to prepare students for immediate challenges as well as a lifetime of professional advancement. Students who already have a degree in engineering, business, or math are encouraged to apply for this program. The U.S. News and World Report rank the online program as one of the Best Graduate Online Engineering Programs in the United States.

Our Degree Plans:

- M.S. Degree Plan I: Thesis (30 SCH)
24 credit hours of courses and six credit hours of thesis research
- M.S. Degree Plan II: Research Project (30 SCH)
27 credit hours of courses & three credit hours of research project
- MS Degree Plan III: 30 credits of courses only, plus pass a comprehensive exam over all core courses.

Three transcribed graduate certificate programs are also available:

- 1) Engineering Project Management Professional Certificate
- 2) Manufacturing Standards and Standardization Certificate
- 3) Supply Chain Standards Certification (offered with College of Business Administration)

Research laboratories are available for work in renewable energy, data science, simulation and optimization, risk management, robotics and automation, intelligent systems and controls, and disaster management. Excellent computer facilities are available.

Admission Requirements:

- Undergraduate degree in engineering or closely related major.
- Undergraduate GPA no lower than 2.6/4.00
- English Proficiency Requirements
- Deadlines and admission information: www.tamuk.edu/grad/

Core Courses (6 credits):

- Computer Application of Statistical Methods in Engineering
- Principles of Optimization

Elective Courses:

- Activity Scheduling
- Advanced Engineering Economic Analysis
- Advanced Engineering Project Management
- Computer Integrated Engineering design
- Computer Simulation of Industrial Systems
- Data Analytics
- Economic Decision Theory
- Fundamentals of Sustainable Engineering
- Game Theory
- Inventory Systems
- Lean Manufacturing
- Manufacturing Systems Design
- Risk Management
- Six Sigma and ISO Standards
- Standards of Product Design and Manufacturing
- Supply Chain Management
- System Safety

Scholarships and Assistantships:

In-state and other scholarships and graduate assistantships are available to qualified students having strong academic preparation and other evidence of superior achievement and leadership. Apply at <http://www.tamuk.edu/grad/admissions/scholarships.html>

Internships and Co-Op Opportunities:

Various companies in manufacturing, logistics, healthcare, and service industries offer internships opportunities for our graduate students.

Employment:

Many of our graduates are now working for companies such as Amazon, Apple, Cummins, Intel, Microsoft, Tesla, P&G, Ford, Port of New Orleans, Oracle, Parsons Corporation, Becht, Seadrill, etc.

