



Frank H. Dotterweich College of Engineering

MASTER OF SCIENCE IN INDUSTRIAL MANAGEMENT

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Department Overview

The Master of Science in Industrial Management prepares graduates for leadership roles in a variety of industrial, processing, and/or construction industries. The specific educational objectives of the program are to:

- Provide students with leadership experience for developing skills necessary to manage personnel in an industrial setting,
- Familiarize students with philosophies and strategies currently used for improving production,
- Provide students with advanced technical knowledge in areas such as quality assurance, industrial safety, and automated production, and
- Familiarize students with research methods and techniques commonly used to solve problems in industrial settings.

Our Degree Plans:

- M.S. Degree Plan I: Thesis Option (30 SCH) 24 credit hours of courses and six credit hours of thesis research
- M.S. Degree Plan II: Non-thesis major (36 SCH) 33 credit hours of courses & three credit hours of research project
- Non-Thesis Option: 36 hours and comprehensive exam

Admission Requirements:

All students admitted to this program are expected to have a baccalaureate degree in a technical-related discipline. If students hold degrees from an unrelated discipline, they may be required to take at least four undergraduate technical courses.

- Undergraduate GPA of 2.5, GRE of 289, and at least a B in all graduate courses.
- Undergraduate GPA of 2.3 and GRE of 294.
- TOEFL score of no lower than 550 (paper-based) or 79 (IBT).
- Deadlines and admission information: <http://www.tamuk.edu/grad/>

Core Courses (21 credit hours from the following):

- Industrial Management
- Six Sigma Quality and Continuous Improvement
- Industrial Safety and Risk Management
- Research Method and Project Development
- Lean Production
- Manufacturing System Management
- Supply Chain Management
- Project Management
- Constraint Management
- Hazardous Material Management
- Topic Course

Elective Courses (3 to 12 credit hours):

- Principals of Optimization or any other approved courses from Industrial Engineering
- Human Resource Management or any other approved courses from the Management or Marketing department

Scholarships and Assistantships:

Scholarships and graduate assistantships are available to qualified students having strong academic preparation and other evidence of superior achievement and leadership.

Internships Opportunities:

Internship opportunities are available for Degree Plan II students, the Graduate Research Project is completed during the last semester.

Employment:

- Production supervision
- Quality control and management
- Cost estimating
- Safety and risk assessment

Additional Information:

<http://www.tamuk.edu/engineering/departments/iten/index.html>



Department of Industrial Management and Technology Graduate Faculty		
Researcher Name	Contact Information	Research Interest
Dr. Bruce Marsh	361-593-2872 bruce.marsh@tamuk.edu	Six Sigma and Quality Improvement; Dimensional Metrology; Data Analysis.
Dr. Md. Monirul Islam	(361) 593-4886 md.monirul.islam@tamuk.edu	Operations Research; Analytics and Machine Learning; Microgrid Design and Control; Risk Management; Modelling Complex Systems; Systems Simulation; Virtual Reality.
Dr. Delia Valles-Rosales	(361) 593-2872 Delia.Rosales@tamuk.edu	Additive Manufacturing; Polymer Processing; Degradability Models; Data Analytics; Engineering Education.

Admission Requirements for the graduate Programs in the Frank H. Dotterweich College of College of Engineering for Spring 2024 onwards

A. **GRE:** GRE is not required for admissions.

B. English Proficiency requirements

1. TOEFL: paper based 550, Internet-based 79.
2. IELTS: 6.0
3. Duolingo: 100
4. Pearson Test for English: 53
5. The following are also considered for the English Proficiency Admission Requirement:
6. GRE Verbal Score 400 (Score on the Prior GRE Scale) or 146 (Score on the Current GRE Scale)

Students who have completed their entire formal education at the secondary or postsecondary level in the following countries are exempt from the TOEFL requirement: American Samoa, Anguilla, Antigua and Barbuda, Australia, Bahamas, Barbados, Belize, Bermuda, British Virgin Islands, Canada (except Quebec), Cayman Islands, Dominica, Federated States of Micronesia, Gambia, Ghana, Gibraltar, Grenada, Guam, Guyana, Ireland, Jamaica, Liberia, New Zealand, Nigeria, Saint Kitts and Nevis, Santa Lucia, Trinidad-Tobago, Turks and Caicos Islands, and United Kingdom (all). Please note: Applicants from Puerto Rico, where Spanish is the primary language, are required to submit a TOEFL or equivalent.

- Based on the review and decision of the College of Graduate Studies, students who have earned at least 12 credits, with a grade C or better, in university-level courses from a U.S. institution or an institution in one of the countries listed above, may be exempt from TOEFL.
- Completion of IEP program at TAMUK ELTC with an Advanced Plus.
- Completion of the advanced-level Texas Intensive English Program (TIEP) offered by the Texas International Education Consortium (TIEC).

C. For MS programs in Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Industrial Management, Mechatronics Engineering and Natural Gas Engineering applicants need to submit transcripts, 2 letters of recommendations issued within eight weeks of the date of application, a personal statement of purpose (2-3 pages), and a resume (up to 2 pages).

D. For PhD applications, and applications to MS programs in Environmental Engineering, Mechanical Engineering and Industrial Engineering applicants need to submit transcripts, 2 letters of recommendations issued within eight weeks of the date of application, a personal statement of purpose (2-3 pages), and full CV.

In making admission decisions, the graduate coordinators will conduct a holistic review of the applicant's academic credentials and relevant work experience.