

TECHNOLOGY MANAGEMENT, MASTER OF SCIENCE WITH A CONCENTRATION IN ENGINEERING OPERATIONS (M.S.)

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General Information

The Master of Science degree in Technology Management has been planned for those individuals who are interested in careers in industrial, technical, construction, agriculture operations, or cyber systems technology security management. Courses in the program have been designed to cause students to examine principles, concepts, attitudes, and methods for dealing with many of the challenges that confront business and industry. The program will be of value to those who are currently employed in business, industry, or agriculture sectors and have professional growth aspirations. It will also be of value to those who have recently completed undergraduate study and want additional preparation before embarking upon their career.

Upon completion of a degree in Technology Management, graduates will be able to:

1. plan, implement, and analyze technical projects;
2. demonstrate ability to formulate and apply advanced technical problem solving and managerial concepts; and
3. accurately synthesize their total program experience.

Admission Requirements

Applicants are expected to present proper prerequisite preparation or technical management experience.

For the Construction Management and the Engineering Operations concentrations, applicants should have an understanding of materials and processes, the principles of production control, and the economics of industry; computer literacy; the ability to communicate graphically; and the ability to apply statistics to the solution of industrial problems.

To be considered for admission, applicants must meet the general admission requirements of the Graduate School. Applicants who do not meet the GPA requirement for admission must submit official GRE scores to be considered for Probationary Admission. Expected target scores on the GRE for Probationary Admission are 144 on the Verbal and Quantitative sections.

International Students

Applications from international students are encouraged. Refer to the University admission guidelines for admitting international students.

Program Requirements

CIP Code: 15.1501

Individual plans of study will include work from the following areas:

Code	Title	Hours
Core Courses		
AEM 801	Economics for Lean Operations	3
AEM 804	Project Management	3
TEC 830	Creative Problem Solving	3
<i>Synthesis Experience</i>		
TEC 860	Research in Technology	3
AEM 821	Industrial Technology Project	3
or AEM 839	Applied Learning in Tech Mgmt	
Concentrations		
Students must select one of the following Concentrations:		
Agriculture Operations		
Engineering Operations		9
Construction Management		
Cyber Systems Tech Security		
Supporting Course Requirements		
Choose from six hours of Supporting Courses		6
Courses for one concentration may serve as supporting courses for the other three concentrations.		
Valid supporting courses for the Construction Management concentration and the Cyber Systems Tech Security concentration:		
AEM 706	Six Sigma Quality	
AEM 802	Product Assess & Analysis	
AEM 805	Operations Research	
Valid supporting courses for the Engineering Operations concentration and the Construction Management concentration:		
NSM 815	Foundations of Network Sec	
NSM 845	Advanced Server Security	
NSM 895	Special Topics in NSM	
Exit Requirements		
GRD 867C	MS Ind Tech Written Comp Exam	0
or GRD 868B	MS Ind Tech Oral Comp Exam	
Total Hours		30

Concentration

Code	Title	Hours
Concentration Courses		
AEM 706	Six Sigma Quality	3
AEM 802	Product Assess & Analysis	3
AEM 805	Operations Research	3
Total Hours		9

Exit Requirements

Thesis

The thesis is not required in the Master of Science in Technology Management.

Comprehensive Examinations

The candidate will have an opportunity to show professional growth through a written and/or oral examination (GRD 867C MS Ind Tech Written Comp Exam or GRD 868B MS Ind Tech Oral Comp Exam) covering

the various program components during the term in which graduation is scheduled.