

# TECHNOLOGY MANAGEMENT, MASTER OF SCIENCE (M.S.)

Advance Your Career at the Intersection of Engineering, Technology, and Management

## Contact for Program Information:

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<https://www.eku.edu/stem/engineering-and-technology/ms-technology-management/> (<https://www.google.com/url?sa=E&q=https%3A%2F%2Fwww.eku.edu%2Fstem%2Fengineering-and-technology%2Fms-technology-management%2F>)

## Program Overview

The Master of Science in Technology Management at Eastern Kentucky University is designed for individuals seeking leadership roles that bridge engineering principles, applied technology, and effective management practices. This program equips students to lead and innovate across diverse sectors where technological proficiency and strategic oversight are critical.

The curriculum centers on applying robust principles, proven concepts, and effective methodologies to navigate and solve complex challenges at the confluence of technology and management. This degree offers significant value to:

- **Working Professionals:** Enhance your expertise in technical environments and develop the strategic management skills necessary for leadership roles that integrate engineering and technology.
- **Recent Graduates:** Build upon your foundational knowledge with specialized skills in technology management, preparing you to effectively launch and accelerate careers that require both technical understanding and managerial acumen.

## Key Program Outcomes:

Upon completing this degree, graduates will be able to:

1. Plan, implement, and analyze technology-driven projects and engineering initiatives with a management perspective.
2. Formulate and apply advanced problem-solving techniques that integrate technical and managerial concepts.
3. Synthesize and apply the comprehensive knowledge from engineering, technology, and management aspects of the program to real-world scenarios.

## 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: 15.1599

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

Code	Title	Hours
<b>Core Courses</b>		
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	
<b>Concentrations</b>		
Students must select one of the following Concentrations:		9
Agriculture Operations		
Engineering Operations		
Construction Management		
Cyber Systems Tech Security		
<b>Supporting Course Requirements</b>		
Six hours of supporting courses, selected from courses with AEM, TEC, NSM, STA, PSY or SSE prefixes, with prior advisor approval, are required.		6
<b>Exit Requirements</b>		
GRD 867C	MS Ind Tech Written Comp Exam	0
or GRD 868B	MS Ind Tech Oral Comp Exam	
<b>Total Hours</b>		<b>30</b>

## Agriculture Operations Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
AGR 720	Global Food Systems	3
AGR 850	Agricultural Policy	3
Choose from three hours of the following with advisor approval:		3
AGR 701	Independent Study in Ag	
AGR 709	Ag Research Mthds & Intrprtn	
AGR 770	Advanced Technical Agriculture	
AGR 807	Adv Tech Study in Agr Problems	
<b>Total Hours</b>		<b>9</b>

## Construction Management

Code	Title	Hours
<b>Concentration Courses</b>		
CON 827	New Construction Entity	3
CON 828	LEED Principles & Procedures	3
CON 829	Construction Portfolio Mgmt.	3
<b>Total Hours</b>		<b>9</b>

## Cyber Systems Tech Security Concentration

Code	Title	Hours
<b>Concentration Courses</b>		
NSM 815	Foundations of Network Security	3
NSM 845	Advanced Server Security	3
NSM 895	Special Topics in NSM	3
<b>Total Hours</b>		<b>9</b>

## Engineering Operations Concentration

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

## 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.