APPLIED ENGINEERING AND TECHNOLOGY MANAGEMENT
Master of Science Program

This program is designed for people wanting to further their knowledge of industrial management and leadership. The program is intended for students having backgrounds in technology, engineering, or science. Most graduates find employment in manufacturing or chemical processing industries depending on undergraduate major and interests.

Course Requirements (30 credit hours) – MSU courses are in blue. Equivalent courses from other universities are in black italics. The equivalent courses may be taken only under special circumstances as described later.

At least one of the following courses (typical semesters in parentheses):

CET 655 Environmental Regulatory Affairs (Spring)
CET 681 Pollution Assessment and Control (Spring)
CET 682 Industrial Ecology (Fall)
CET 687 Sustainable Environmental Technology (Spring)
IET 619 Industrial Energy Management (Fall)

One of the following courses (typical semesters in parentheses):

IET 684 Engineering Economic Analysis (Fall)
IET 610 Engineering Economy, Morehead State on-line
AEM 801 Economics for Lean Operations, Eastern Kentucky on-line
AMS 520 Resource Management, Western Kentucky on-line

One of the following courses (typical semesters in parentheses):

IET 687 Quality Control (Spring)
IET 619 Total Quality Control, Morehead State on-line
AEM 706 Six Sigma Quality, Eastern Kentucky on-line
AMS 671 Total Quality Management, Western Kentucky on-line

One of the following courses (typical semesters in parentheses):

IET 691 Industrial Operations (Fall)
IET 627 Applied Industrial Management, Morehead State on-line
AEM 805 Operations Research, Eastern Kentucky on-line
AMS 590 Operations Leadership, Western Kentucky on-line
At least one of the following courses (typical semesters in parentheses):

IET 693 Systems Management Technology (Fall)
IET 696 Teamwork and the Management of Technology (Spring)

One of the following courses (typical semesters in parentheses):

IET 695 Industrial Supervision (Spring)
IET 622 Industrial Project Management, Morehead State on-line
AEM 804 Project Management, Eastern Kentucky on-line
AMS 655 Project Management, Western Kentucky on-line

Sufficient electives to fulfill the 30 credit hour requirement.

Electives may be taken over a wide range of categories. Elective courses are the student’s choice based on career interests, course availability, and satisfaction of any prerequisites. The choices must be approved by your advisor as a part of the program of study. HDL courses, e.g. HDL 660, HDL 670, and HDL 692 are recommended. Students also take a variety of COM courses.

Presently, AETM students are typically not allowed to take courses with the following prefixes, regardless of academic background: ACC, BPA, CIS, FIN, MGT, and MKT. Enrollment in TSM courses is currently restricted to after the TSM students have enrolled.

Independent study, special problems, workshop, and similar courses will only be allowed in special circumstances as approved by your advisor and the course instructor.

Additional Information

IET 687 requires an introductory background in statistical analysis. Students without an undergraduate statistics course are encouraged to take MAT 135, CIS 243, or an equivalent course before taking IET 687.

In certain circumstances, e.g., being out of country, having work commitments that prevent taking an on campus course, or when MSU courses are full, equivalent on-line courses may be taken from certain other universities if approved by the graduate coordinator. Determining when the courses are offered, applying, and transferring grades are the student’s responsibility.

Contact: mkemp@murraystate.edu for AETM program information. Contact graduate admissions or international graduate admissions for information on applying to or enrolling at Murray State University. International students should contact International Admissions for questions related to English language and visa requirements. The GRE or an appropriate level of full time industrial experience is required for admission.