



College of Aeronautics and Engineering
 127 Aeronautics and Technology Building
 330-672-2892
 cae@kent.edu
 www.kent.edu/cae

Master of Technology Specialization in Manufacturing Systems/Mechanical Engineering Technology/Mechatronics

PROGRAM REQUIREMENTS (12 credits)		
Course	Title	Credits
TECH 57010	Ethics, Technology and the Environment	3
TECH 60000*	Project Management in a Technological Environment	3
TECH 60001	Quantitative Methods in Technology	3
TECH 60078	Research Methods in Technology	3
ADDITIONAL PROGRAM REQUIREMENTS (21 credits)		
(see below)		21
MINIMUM TOTAL		33

*Some of the required courses include special course fees. These courses include, but are not limited to, TECH 60000. Please refer to the University Fee Register for the full listing of Special Course Fees at www.kent.edu/bursar.

A minimum of 15 credit hours of course work should be taken from the following list:

- TECH 50000 - Quality Standards
- TECH 52200 - Radiation Processing of Materials
- TECH 53550 - Computer-Aided Manufacturing
- TECH 53700 - Computer Integrated Manufacturing
- TECH 53800 - Applied Engineering Technology Seminar
- TECH 55551 - Introduction to Nanotechnology
- TECH 60003 - Six-Sigma: Tools and Applications for Technology Management
- TECH 63050 - TRIZ-Theory of Inventive Problem Solving
- TECH 63870 - Facility Design and Material Handling
- TECH 65400 - Evaluating Quality Systems Through Process Control
- TECH 65700 - Applied Reliability Engineering
- TECH 65800 - Burn-In/Stress Testing for Reliability

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Additional Program Requirements/Limitations

- A cumulative graduate GPA of 3.00 is required for graduation.
- A minimum of 18 credit hours in 60000-level or above coursework is required.
- A minimum of 21 credit hours of coursework must be taken in AERN, CMGT or TECH courses.
- A maximum of 4 credit hours of Workshop coursework may be used to satisfy the degree requirements.
- A maximum of 9 credit hours in Technology Individual Investigation coursework may be used to satisfy the degree requirements.
- A maximum of 12 semester credit hours may be accepted as transfer credits and applied toward degree requirements.
- A total of 6 credits for thesis (TECH 61199: Thesis I) will be counted if the thesis option is chosen.

Students are required to select the thesis or non-thesis option. The thesis option, recommended for students interested in research and development, allows students to acquire an in-depth knowledge of a narrowly-defined technical area of interest. The non-thesis option is suggested for students who seek a more general curriculum of advanced technical coursework. Those students who choose the thesis option must successfully complete TECH 61199 - Thesis 1 for a total of 6 credit hours.