

## The University and community

MTSU has been ranked by *Forbes* magazine as the best public university in Tennessee. The spacious campus features modern buildings that exist harmoniously with historic structures. New residence accommodations, a fully computerized library, a recreation center, and computer access make it possible to provide solid programs to more than 22,000 students. Individual help and attention from faculty members is an important aspect of MTSU's educational philosophy.

The campus is located in the historic town of Murfreesboro, only 30 miles southeast of Nashville and in the center of manufacturing for the region. Living in Murfreesboro allows students to enjoy a metropolitan atmosphere without the impersonalization of a large city.



## Transfer with associate degree

A student with an associate degree in mechanical engineering technology or a related field may continue his/her study in this concentration. Many credit hours from the associate degree could be applied toward the requirements. Usually, it takes about two years to complete the B.S. degree in Engineering Technology for students with associate degrees in one of the related areas. A grade of C or better is required on transfer credits accepted as part of the major in Engineering Technology.

## Curriculum

The following are curriculum requirements for the Mechanical Engineering Technology concentration. Students are required to complete a **minimum of 124 credit hours, 67 of which are in Engineering Technology.**

### General education

A total of **41 hours in the General Education program** is required. The program includes courses in Communication (9 hours), Humanities and/or Fine Arts (9 hours), Social/Behavioral Sciences (6 hours), Natural Sciences (8 hours), Mathematics (3 hours), and History (6 hours). Please refer to the current *MTSU Undergraduate Catalog* online for more details.

### Major courses

ENGR 1100	Engineering Fundamentals
ENGR 1210	Introduction to Materials Science and Engineering
ENGR 2110	Statics
ENGR 2120	Dynamics
ENGR 3915	Technical Project Management and Soft Skills
ENGR 3920	Engineering Safety
ENGR 3970	Engineering Economy
ET 2310	Computer-Assisted Drafting and Design I
ET 2920	Industrial Orientation Internship
ET 3210	Machine Tool Technology
ET 3260	Manufacturing Processes and Materials
ET 3360	Computer-Assisted Drafting and Design II
ET 3601	Electrical Circuit Analysis I
ET 3602	Electrical Circuit Analysis II
ET 3810	Engineering Thermodynamics
ET 3860	Strength of Materials
ET 4330	Advanced Computer-Aided Drafting
ET 4340	Design of Machine Elements
ET 4710	Professional Development Seminar
ET 4803	Mechanical Engineering Technology (capstone)
ET 4815	Heating, Ventilation, and Air Conditioning
ET 4830	Vibration
ET 4850	Fluid Power
ET 4860	Robotics

### Supporting courses

CSCI 1170	Computer Science I
ENGL 3620	Professional Writing
MATH 1910	Calculus I
MATH 1920	Calculus II



## Student organizations

Student groups within the Engineering Technology Department represent many programs, including the MET program.

### American Society of Mechanical Engineers (ASME) Society of Automation Engineers (SAE)

The MTSU student chapters of ASME and SAE are active organizations that exist primarily for Mechanical Engineering Technology students. The groups attend national meetings, routinely tour local industrial sites, and participate in intercollegiate competitions around the country. Student members enjoy all the benefits of these national professional organizations at reduced fees.

## Experimental Vehicles Program (EVP)

Students in the EVP build and race vehicles in competitions around the country and the world. Projects include the solar vehicle, solar boat, formula SAE, mini baja, and moonbuggy. Students benefit from applying classroom skills to real-world projects and challenges. The program builds team, leadership, and communication skills that are necessary in industry.

## Accreditation

The Mechanical Engineering Technology concentration is accredited by the Engineering Technology Accreditation Commission of ABET, [abet.org](http://abet.org).

## For more information

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MTSU Box 19  
Murfreesboro, TN 37132  
phone: 615-898-2776  
fax: 615-898-5697

[mtsu.edu/et](http://mtsu.edu/et)

### Admissions Office

615-898-2111  
[admissions@mtsu.edu](mailto:admissions@mtsu.edu)  
1-800-331-MTSU (in Tennessee)  
1-800-433-MTSU (out of state)  
[mtsu.edu](http://mtsu.edu)



## Financial aid

A variety of scholarships and grant programs exist for students. Applications should be submitted through the Office of Student Financial Aid.

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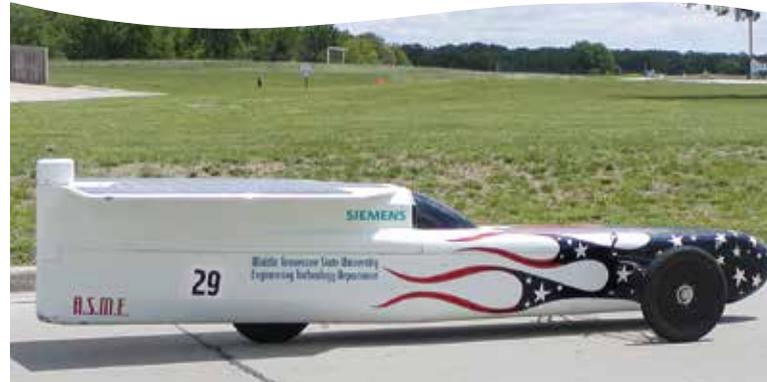
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## Mechanical Engineering Technology



a concentration within the  
Engineering Technology Department



Mechanical Engineering Technology is a concentration that teaches skills integral to machine design, manufacturing, engineering, field service engineering, technical sales, thermal analysis, product design, utilities operations, air conditioning design, plant operations, and many other professions. The program gives students chances to mesh in-class learning with project-oriented assignments and experience in national competitions such as the NASA Human Exploration Rover Challenge, Baja SAE, the Formula SAE, and the Solar Splash (solar boat).

### Facilities and faculty

The program is supported by modern facilities and materials including robotics, hydraulics, pneumatics, machine tools, electronics, electric motors, rapid prototyping, and computer modeling laboratories.

Faculty members with strong academic backgrounds and **industrial experience** provide individual attention while instructing and advising.

### Industry alliances

An active industry advisory group offers input to ensure that our program produces graduates who meet industry needs. This group also helps through **internships** and **cooperative education** projects for students.

The following quotes from graduates in manufacturing managerial positions illustrate the result:

*“Attending MTSU prepared me to enter the workforce with the mentality to succeed in my profession. The knowledge gained from instructors with experience in the field has proven to be of great benefit. The Engineering Technology Department and its instructors should be proud of the individuals who graduate and succeed.”*

Ernest Dunkley  
Corp. tooling/Mfg. engineering supervisor  
Calsonic North America-Tennessee

*“MTSU’s ET Department prepares students well. I’ve supervised numerous student projects over the past few years. Students and industry both benefit from these hands-on experiences.”*

Mark S. Stewman  
Director of engineering  
Cumberland Swan Holdings, Inc.

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