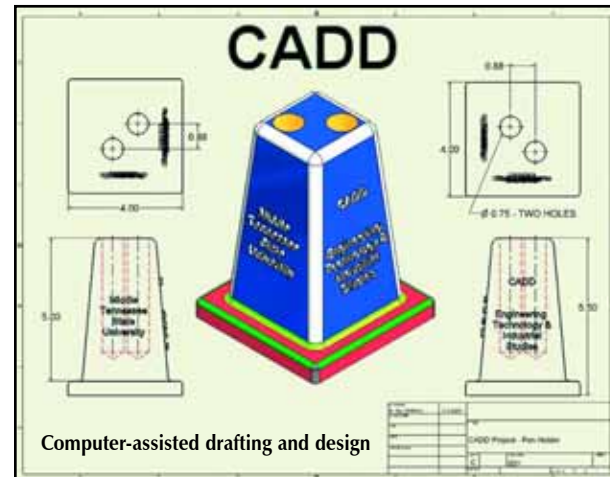


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MIDDLE TENNESSEE STATE UNIVERSITY

Mechanical Engineering Technology

a concentration within the Engineering Technology and Industrial Studies Department



Murfreesboro, Tennessee

Mechanical Engineering Technology

at Middle Tennessee State University

The Mechanical Engineering Technology (MET) program was added in fall 2004 to the Engineering Technology and Industrial Studies Department (ETIS) at Middle Tennessee State University (MTSU). The MET program seeks to prepare students for careers in engineering and industrial fields. Knowledgeable personnel are in high demand in today's rapidly advancing marketplace. The MET faculty and facilities provide the tools needed to succeed as engineering technologists.

Faculty

Well-prepared faculty members with strong academic backgrounds and industrial experience provide individual attention in both instruction and advising.

Industry alliances

The ETIS Department enlists the aid of an active **industry advisory group** to ensure that our programs meet the changing requirements of industry.

This group also assists students in finding **internship and co-op positions** and helps link local industry to student projects.



Air motor (a student project in CAD/CAM)



Fluid power trainer

Facilities

The MET program is supported by a variety of modern facilities. **Computer labs** are equipped with the latest computers and software, including two- and three-dimensional CADD, finite element analysis, and mechanical systems analysis capabilities. These laboratories are up-to-date facilities maintained to provide students with excellent opportunities for hands-on experience with today's technology.

Address Service Requested

MIDDLE TENNESSEE STATE UNIVERSITY

Engineering Technology and Industrial Studies Department
Box 19

Middle Tennessee State University
Murfreesboro, TN 37132

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Curriculum

The MET program at MTSU offers the chance to obtain skills necessary for placement in highly competitive jobs in machine design, manufacturing engineering, field service engineering, technical sales, thermal analysis, product design, utilities operations, air conditioning design, plant operations, and a variety of other fields.

The four-year course includes general studies and technical courses. A total of **124 semester hours** is required to obtain the Bachelor of Science degree in Engineering Technology with a concentration in Mechanical Engineering Technology. Please see the current MTSU undergraduate catalog for General Education requirements, course descriptions, and other specific information.

The required courses and recommended sequence are given below.

FRESHMAN	Hours
ENGL 1010, 1020	6
MATH 1730	4
MATH 1910	4
CHEM 1110	4
ET 1210, 1840, 2310	9
CSCI 1170	4
Total 31	

SOPHOMORE	Hours
ENGL 2020 or 2030	3
ENGL 3520	3
PHYS 2010/2011	4
Humanities and/or Fine Arts	6
MATH 1920	4
ET 3210, 3360, 3601, 3830	12
Total 32	

JUNIOR	Hours
HIST 2010, 2020, or 2030	6
COMM 2200	3
Social/Behavioral Sciences	6
ET 3260, 3602, 3840	9
ET 3810, 3860, 4330	8
Total 32	

SENIOR	Hours
ET 4340, 4420, 4710	7
ET 4850, 4970, 4815	9
ET 4860, 4803, 4830	9
ET electives (4 hours from approved list)*	4
Total 29	

*Approved list of senior electives: ET 4230, 4600, 4640, 4990

Within the sequence above, students will take four three-course sequences and the capstone course as follows:

Materials/Processing	ET 1210, 3260, 4340
Computer Aided Drafting and Design	ET 2310, 3360, 4330
Thermal Systems	ET 3810, 4815, 4850
Engineering Mechanics	ET 3830, 3840, 3860
Capstone course	ET 4803



Student organizations

Several student organizations exist within the ETIS Department representing students from a variety of 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 of the benefits of these national organizations at reduced fees.

Experimental vehicles program (EVP)

The EVP builds and races a variety of vehicles in competitions around the country and the world. These projects include the solar vehicle, solar boat, formula SAE, mini baja, and moonbuggy.

Students have the opportunity to apply classroom skills to real world projects and challenges. The program builds team, leadership, and communication skills that are necessary in the industry.



2005 Mini Baja competition



Solar vehicle teams placed first and second in 2003-04 competition.

For more information

Dr. Sid Sridhara

MTSU Box 19
Murfreesboro, TN 37132
Phone: (615) 898-5780
Fax: (615) 898-5697
<http://etis.web.mtsu.edu/>

Admissions Office

Middle Tennessee State University
Murfreesboro, TN 37132
Phone: (615) 898-2111

e-mail: admissions@mtsu.edu
1-800-331-MTSU (in Tennessee)
1-800-433-MTSU (out of state)
www.mtsu.edu

Financial aid

A variety of scholarships and grant programs are available. Applications should be submitted through the Engineering Technology and Industrial Studies Department and the Office of Student Financial Aid.