

Non-Profit
Organization
U.S. Postage
PAID
Permit 169
Murfreesboro, TN

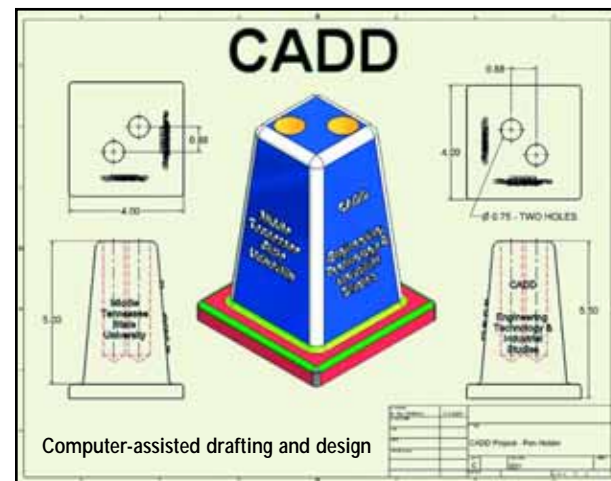
Address Service Requested

**MIDDLE
TENNESSEE**
STATE UNIVERSITY
Engineering Technology
and Industrial Studies Department
Box 19
Middle Tennessee State University
Murfreesboro, TN 37132

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.

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 |



2005 Mini Baja competition

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.



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.