Laboratories

There is a great emphasis on hands-on experience throughout this program. Most electronics courses divide time equally between lectures and labs with more emphasis on lab work at the senior level. There are five laboratories equipped with state-of-the art instruments.

- Basic Electricity and Electronics Lab
- Advanced Lab
- Microprocessor Lab
- Local Area Networks Lab
- Industrial Electricity Lab

There are other laboratories housed within the department to support Computer Engineering Technology and other programs.

Accreditation

The Computer Engineering Technology concentration at MTSU is accredited by the Technology Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202; telephone 410/347-7700.

For more information

Dr. Saleh M. Sbenaty
MTSU Box 19
Murfreesboro, TN 37132
(615) 898-2966
Main Office: (615) 898-2776

www.mtsu.edu/et/

Admissions Office: (615) 898-2111
1-800-331-MTSU (in Tennessee)
1-800-433-MTSU (out of state)
www.mtsu.edu/admissn
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/Behavior Sciences (6 hours), Natural Sciences (8 hours), Mathematics (3 hours), and History (6 hours). Please refer to the current MTSU Undergraduate Catalog for more details.

Major courses

- ET 1840 Engineering Fundamentals
- ET 3601 Electrical Circuit Analysis–DC
- ET 3602 Electrical Circuit Analysis–AC
- ET 3620 Digital Circuits Fundamentals
- ET 3630 Electronics
- ET 3640 Digital Circuits Design
- ET 3650 Introduction to Microprocessors
- ET 3670 Computer-Assisted Printed Circuit Board Design
- ET 4420 Industrial Safety
- ET 4600 Programmable Logic Controls
- ET 4610 Instrumentation and Controls
- ET 4630 Local Area Networks
- ET 4640 Industrial Electricity
- ET 4660 Microprocessor Interfacing
- ET 4670 Microprocessor Design
- ET 4710 Professional Development Seminar
- ET 4801 Senior Problems in Engineering Technology
- ET 4915 Technical Project Management and Soft Skills
- ET 4970 Engineering Economy

Supporting courses

- CSCI 1170 Computer Science I
- CSCI 2170 Computer Science II
- CSCI 3160 Introduction to Assembly Language
- CSCI 3180 Introduction to Numerical Analysis
- ENGL 3620 Professional Writing
- MATH 1910 Calculus I
- MATH 1920 Calculus II
- PHYS 2020/2021 Non-Calculus-Based Physics II

Optional minor

CET students may choose to minor in computer science by taking an approved three-credit-hour CSCI course at the upper division level.

Transfer students

Students with associate degrees or those with credits from other higher education institutions may choose to apply for transfer credit evaluation. The College of Basic and Applied Sciences evaluates general education and supporting courses. The ET student technical advisor evaluates technical courses for possible transfer credit.

The department

The Engineering Technology Department (ET) prepares students for a wide range of technical and applied engineering positions in the industry. Through nationally accredited programs, a project-based learning environment, and extensive collaboration with industry, the department offers opportunities for students to acquire the technical and scientific knowledge required for success in their chosen fields.

The program

The Computer Engineering Technology (CET) concentration is a four-year program leading to the B.S. degree in Engineering Technology. This fast-growing program offers the opportunity to develop strong, applied technical skills in:

- electric and electronic circuits
- digital systems
- computer hardware and software
- local and wide area networks
- microprocessor applications
- automation and control
- data acquisition, transfer, and analysis

The prevalence of computers and their applications in our everyday lives has created a great demand for computer engineering technologists. Employment opportunities exist in various industrial fields that require design and application development for digital computers. These areas include manufacturing; medicine; aerospace; digital instrumentation, control, and measurement; sales; and installation and maintenance of computers and their networks.

Employment opportunities

Graduates may find employment as computer engineers, electronics engineers, electronics engineer managers, automation and control engineers, project engineers, design engineers, manufacturing engineers, and networking engineers.

The curriculum

Following are curriculum requirements for the Computer Engineering Technology concentration. Students are required to complete a minimum 124 credit hours, 59 of which are in Engineering Technology.

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