



**EARLY TECHNICAL COLLEGE**  
*at Tennessee College of Applied Technology*





## ABOUT THE EARLY TECHNICAL COLLEGE

The CMCSS Early Technical College at TCAT is a unique program, offering a hands-on learning experience in an environment that allows students the opportunity to obtain an industry certification while completing the required high school courses to graduate in the state of Tennessee. Students can select from one of five industry pathways, earning up to two certifications depending on the chosen pathway. High school ETC students who qualify can enroll as adult TCAT students upon receiving their high school diplomas. Funding from TNPromise can be used by adult students for the tuition needed to further their education and earn their TCAT diploma.

All classes required by the state of Tennessee to obtain a high school diploma will be taken on the TCAT campus using an online platform. Through this platform, students will have access to a certified teacher who will oversee their progress in each high school course and offer individualized supports as needed. A certified TCAT instructor will teach each TCAT industry pathway course. The majority of classes will be held from 10:30 a.m. to 5:30 p.m. on the Clarksville campus of TCAT. If needed, transportation can be provided by CMCSS.

## MISSION | VISION | MOTTO

**The mission** of Early Technical College is to collaborate with TCAT to provide the highest quality academic and technical education to prepare students for post-secondary opportunities, including apprenticeships and immediate productive employment.

**Our vision** is to empower all Early Technical College students to confidently and successfully enter into post-secondary and career opportunities and become positive, contributing members of society.

**Our motto** is to Educate. Empower. Elevate.

## PATHWAYS FOR STUDENTS

CMCSS Early Technical College at TCAT has five pathways for students:

### DIESEL POWERED EQUIPMENT TECHNOLOGY

This program provides practical experience in the repair and maintenance of diesel powered equipment. Students receive instruction in troubleshooting, engine analysis, disassembling engines, replacing defective parts, reassembling, etc. The program's mission is to provide technical instruction and skill development that will enable students to enter employment in truck, construction, agricultural equipment, and other related fields as technicians.

### INDUSTRIAL ELECTRICAL MAINTENANCE/MECHATRONICS

This program includes classroom and hands-on experience in electronics, electrical, pneumatics, hydraulics, motor controls, programmable controllers, robotics, machine shop, and related math. Students completing this program will be prepared to perform in entry level positions within a typical industrial environment.

### PRE-PRACTICAL NURSING

This program is a direct path from high school into the adult TCAT Practical Nursing program. Students study basic nursing skills and related subjects such as body structure and function, nutrition, pharmacology, obstetrics, and psychology. The PPN pathway curriculum is structured to prepare students for the adult program taught and facilitated by a TCAT Nursing faculty member. The pathway is a combination of classroom and laboratory experiences. Upon completion of the adult Practical Nursing Program the graduate is eligible to take the practical nursing exam.

### HEATING, VENTILATION, AIR CONDITIONING/REFRIGERATION

This program consists of classroom and shop learning experiences including theory, application, and service of air conditioning and refrigeration equipment. Print reading, basic electronics, pneumatics, math, programmable controllers, refrigerant containment certification (EPA certification), and heat pump technology are basic components of this program. Upon completion, students will be prepared to enter jobs as service technicians in a variety of domestic, industrial, and commercial settings.

### PHARMACY TECHNOLOGY

This program prepares students to work as a pharmacy technician in various healthcare settings. Instruction includes anatomy and physiology, medical terminology, pharmacy math, and other courses along with supervised clinical training. Pharmacy technicians prepare medications under the direction of a pharmacist, and may measure, mix, count, label, and record amounts of medication dosages according to prescription orders.





## CERTIFICATES AND CERTIFICATIONS

### **Diesel Powered Equipment Technology**

- Preventative Maintenance Service Technician
- Diesel Engine Assembler
- OSHA10

### **Heating, Ventilation, Air-Conditioning/Refrigeration**

- HVAC Mechanic Helper
- Domestic Unit Repair
- OSHA10

### **Pharmacy Technology**

- OSHA10

### **Industrial Electrical Maintenance/Mechatronics**

- Electrician Helper
- Maintenance Apprentice
- OSHA10

### **Pre-Practical Nursing**

- Nurse Aide Certificate
- OSHA10

## TUITION AND FEES

Through the Dual Enrollment Grant program, ETC students will not be required to pay tuition nor will they incur the expense of textbooks, uniforms, or tools. Students are required to achieve and maintain a cumulative college grade point average of 2.75 for all post-secondary courses attempted while participating in the Dual Enrollment Grant program.

## DAILY SCHEDULE

### 8:00-11:00

TCAT classes for Pharmacy Tech students who do not utilize CMCSS transportation  
Optional paid internships for second year students

### 10:30-11:00

Employability/Success Skills, & Post-secondary Advisement

### 11:00-11:30

Lunch

### 11:30-2:30

TCAT classes for Pharmacy Tech students who utilize CMCSS transportation  
CMCSS online classes for Diesel, HVAC/R, and IEM/M students, and Pharmacy Tech students who do not utilize CMCSS transportation

### 2:30-5:30

TCAT classes for Diesel, HVAC/R, IEM/M, and Pre-Practical Nursing students  
CMCSS SchoolsPLP online classes for Pharmacy Tech students who utilize CMCSS transportation

## ADMISSION REQUIREMENTS

- 2.2 GPA for IEM/M, HVAC/R, Diesel Powered Equipment, Pharmacy Technology
- 2.5 GPA for Pre-Practical Nursing (seniors only)
- On-track to Graduate
- Satisfactory Attendance
- Satisfactory Behavior





# HOW TO APPLY FOR EARLY TECHNICAL COLLEGE

Complete the Early Technical College Online Application at <https://etc.cmcss.net/>.

## EMPLOYABILITY/SUCCESS SKILLS, & POST-SECONDARY ADVISEMENT

The ETC Success Coach & Career Access Advisor will utilize various advisement techniques and assessments to assist scholars with activities that will allow them to discover their personality types, aptitudes, and interests. Additionally, scholars will actively engage in various career exploration opportunities that will assist them in developing 21st century and employability skills while participating in work-based learning opportunities.





## **DR. KAREN BEARD**

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