



Passion Sparks Innovation. Find your Path.

Program Description

Step into two of the fastest-growing technical fields: digital security and smart technology. In this program, students learn how to protect information, analyze cyber threats, and explore the power of artificial intelligence. From securing networks to designing AI solutions, this pathway builds future-ready skills for careers in technology and innovation.



Courses Offered 2026-27

Computer Applications (Fall)
Principles of Information Assurance (Fall)
Introduction to Programming and Logic (Spring)
A+ Hardware and Software (Spring)

Post-Secondary Opportunities

Students who leave our Cybersecurity and AI program are prepared for entry-level in IT support, network administration, and security operations. Students have potential to earn 12 credits of college credit during each school year, taking them halfway to a Cybersecurity Technical Certificate.

Partnerships





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Program Description

Take flight into the world of aerospace and aviation technology. This hands-on program combines classroom learning with real-world experience, preparing students for careers in piloting, aeronautical engineering, drone operations, and air traffic control. If you've ever dreamed of working in aviation, this pathway is your launchpad.



Courses Offered 2026-27

Aviation I: Principles of Flight
Aviation II: Advanced Flight
WBL Aviation Flight Practicum

Post-Secondary Opportunities

The opportunity to earn up to 12 Dual Enrollment credits with Middle Tennessee State University will propel you towards success at the Innovation Center. Whether you're pursuing a career as a private pilot, flying recreationally, or aiming to become a commercial airline captain, our aviation pathway provides the training and support to help you reach your goals.

Partnerships



Students can maximize their flight simulator hours through the Innovation Center and pursue additional flight hours through a flight school for an additional cost.





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Program Description

Explore the exciting world of food, travel, and service. This program blends culinary arts with hospitality and tourism, giving students hands-on experience in cooking, event planning, and customer service with simulation labs that include a mock hotel room, lobby, and kitchen. Whether you want to become a chef, manage a hotel, or plan unforgettable experiences, this pathway opens doors to a wide range of careers.



Courses Offered 2026-27

Hospitality & Tourism Management I
Dual Enrollment Hospitality & Tourism I
WBL Hospitality and Tourism Practicum

Post-Secondary Opportunities

A student from this pathway is ready to start work tomorrow in the industry or head off to college where they can further their studies of Hospitality, Tourism, & Culinary Management. Skills taught through this program range from communication to problem-solving to time management.



Our large list of industry partners will be able to keep you local to Franklin for a job after high school or place you near your college town in order to make money while studying at college.

Partnerships





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Program Description

Learn what it takes to protect lives and property in this action-driven program focused on fire protection, emergency services, and public safety. Taught by members of the Franklin Fire Department, students gain real-world experience through a mix of classroom instruction and skill-building labs—perfect for those interested in firefighting or emergency response careers.



Courses Offered 2026-27

Principles of Fire & Emergency Services
WBL Fire Management Practicum

Post-Secondary Opportunities

Students in this pathway have the opportunity to apply for the Franklin Fire Department's highly competitive, 19-week paid internship for recent graduates. Interns train full-time at the Franklin Fire Training Center, working side-by-side with professional firefighters, gaining real-world experience in emergency services. Additionally, graduates are eligible to apply to numerous volunteer fire departments, opening even more doors to careers in public safety.



Partnerships



12 Seats Available





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Program Description

Power up your future with hands-on training in two exciting areas: electrical systems and off-road machinery. This pathway prepares students for careers in energy, equipment maintenance, and industrial technology.

Students will:

Work with electrical systems—learn wiring, circuitry, and safety procedures.

Install and troubleshoot industrial power systems, including generators and renewable energy sources.

Master heavy equipment maintenance for construction, agriculture, and industrial settings.

Gain experience with **gas and diesel engines, hydraulics, powertrains, and machine diagnostics**.

TCAT instructors are embedded on the campus delivering hands-on training, giving students practical experience in state-of-the-art labs providing ideal preparation for careers in advanced energy systems and heavy machinery.

Post-Secondary Opportunities

The opportunities for students coming out of the Innovation Center will include being eligible to apply at Thompson Caterpillar or further their education with CAT Academy.

Partnerships



Program 1

Courses Offered 2026-27

Electrical Power Generation Dual Enrollment I-VI
Electrical Assistant Certificate

Program 2

Courses Offered 2026-27

Off Road Diesel & Machinery Dual Enrollment I-VI
Diesel Assistant Certificate

40 Seats Available



TENNESSEE COLLEGE
OF APPLIED TECHNOLOGY
— DICKSON —
& CLARKSVILLE CAMPUS

