



CLEVELAND CITY SCHOOLS CAREER & TECHNICAL EDUCATION

NEWSLETTER

February 2021

Cleveland High School Receives Two New Tennessee Pathways Certifications

Cleveland High School has received two new Tennessee Pathway Certifications in our Career and Technical Education (CTE) programs of study.

Tennessee Pathways certification is composed of an elective focus, work-based learning experience, early post-secondary coursework and opportunities to earn industry certifications.

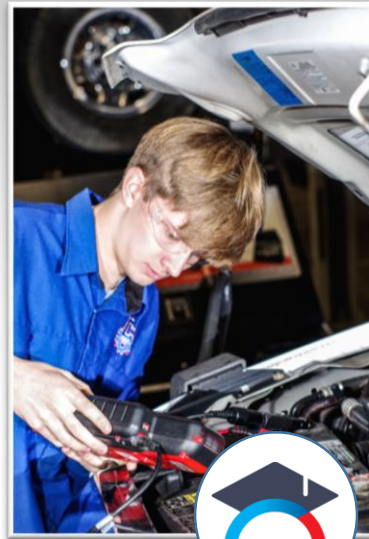
The certification sets clear expectations for alignment, advisement and partnerships that define strong education-to-career pathways. Beyond establishing standards for program quality and design, the certification elevates and celebrates innovative and exemplary pathways in the state.

Cleveland High School's Automotive Maintenance and Light Repair, and our Emergency Services programs of study were notified January 29 as being recipients of the certifications.

In 2019, Cleveland High School received three TN Pathway Certifications in Robotics, Diagnostic Medicine and Medical Therapeutics.

Cleveland High School now has a total of five TN Pathways Certifications for our students.

Dr. Dyer said, "I am proud of the work our team is accomplishing in Career and Technical Education. These pathways ensure our students are taking the right steps to lead them toward meaningful careers. This, along with our partnership with the Center for Applied Professional Studies (CAPS) proves we are on the right track regarding educating our students in our schools and with our many industry and



business partners in the Cleveland community. I appreciate the work of Mr. Renny Whittenbarger in leading our efforts to gain pathway certification."

Cleveland City Schools CTE program continually pursues opportunities that enhance student learning and opportunities in our CTE programs. Our business and industry partners are the driving force behind our initiatives to deliver rigorous, real-world hands-on learning experiences for our students.

During the 2021-2022 school year, Cleveland High School CTE plans to submit applications to certify all remaining programs of study. As a result, our CTE programs would align with local and national labor market demands, academic integrity, and relevance.

The ultimate goal for the Cleveland City Schools Career and Technical Education Department is to shape the future.



Diagnosing the Problem

After a student had car trouble, Mr. Godwin was able to assist the student in finding the problem. The class was able to learn about a damaged U-Joint and the steps they needed to take to help their fellow student in replacing it.



Learning to Use a Hydraulic Floor Jack

Raising a car for the first time with a hydraulic floor jack and then lowering it onto a jack stand seems easy enough until you actually lay your hands on it. Thankfully, these students had fellow CHS Students there with them for support.



Promotional Videos

Advanced Dual Enrolled Students being interviewed today about the Automotive Academy and what it has to offer them both now and in the future. Two of these students will attend TCAT Athens and major in Automotive Technology.



Aviation Club

Monday, February 8, Aviation Club was able to meet for the first time this school year. In the Aviation Club, students are able to fly the FMX or TD2 flight simulators, fly drones and try the obstacle course or continue their preparation for one of the FAA written exams.



Class Challenge

Mr. Conrad challenged Aviation One students to use the engineering thought processes to make a balloon carry paper clips. The group that carried the most paperclips to the ceiling won the challenge.



Freshman Tour Aviation

Aviation students had the opportunity to share their class with some of the male freshmen, giving them a chance to see what courses are available for their future.



Learning to be a Leader

Are you a leader? Business Academy students learned about leaders and their traits! Students were challenged to pick a leader and present a PowerPoint presentation on their leader and what we can learn from them.



Spring Class Ambassadors

Mrs. Person announced the spring ambassadors for the Business Academy. Class ambassadors have a huge role in the CTE department. They are charged with greeting all class visitors and informing the visitor about the class and what is taking place in the classroom. Class ambassadors are to be leaders in the classroom and set the tone for the class.



Class Presentations

Each student worked hard on their PowerPoint presentation titled "All About Me" to present to the class. This project gives students an opportunity to present who they are, what they do, what they like/dislike, AND get to know others they may not know very well. Students may also discover a similar interest with someone else that they may never have known!



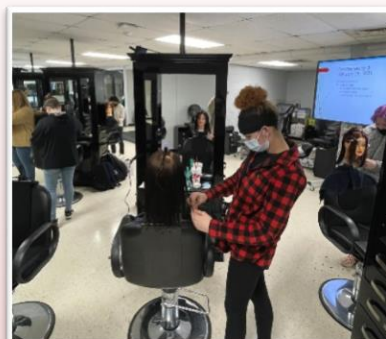
Wet Hair Styling

Wet Hairstyling breaks hydrogen bonds in the cortex layer of the hair. Drying the hair reforms the bonds making a new pattern. Depending on the size of the tool used, wavy, curly or extremely curly hair is formed.



Dermaplaning

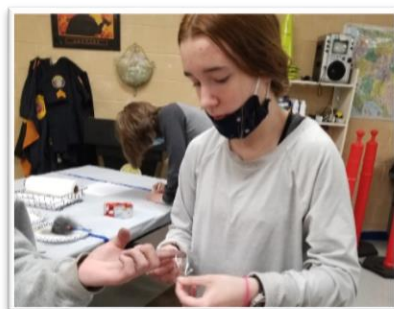
Students are learning about dermaplaning from Angela Pirowski, licensed aesthetician and Cosmetology Advisory member. Dermaplaning is a skin treatment that uses an exfoliating blade to skim dead skin cells and hair from your face. It's also called microplaning or blading.



Hair Cuts and Blow Outs

Cosmetology students practice haircutting and blow-dry styling. This salon service is always in demand. These fundamental skills are some of the most important that a cosmetologist can possess.

CRIMINAL JUSTICE



Victim Statements

Students practice taking victim impact statements. It is important for the Court to know the impact this crime has had on its victims. Victim impact statements describe the emotional, physical and financial impact you and others have suffered as a direct result of the crime. Victim impact statements can be either written or oral statements.

DUI Testing

CHS Criminal Justice learn to properly perform a Field Sobriety Test. A field sobriety test is a test where you are asked to touch your hand to your nose, stand on one leg, and walk along a straight line and turn. The officer will watch you do these things and take notes, which they can then use in court to show that you were intoxicated.

Fingerprinting

Fingerprints are an integral piece of evidence when it comes to solving crimes. Students will learn how fingerprints are collected and analyzed within the field of forensics.

CULINARY ARTS



Pancake Math

Culinary Arts I students work on pancake math and put their skills into action by making pancakes and then get to eat their culinary delights.

Baking Cookies

Although there are many specialties in the culinary arts, baking is among the most popular and versatile. Building a career in this field requires knowing some kitchen basics, including having a working knowledge of baking. After all, not only is baking the key to many delicious dishes, but it is also a great way to learn important skills such as how to measure properly, convert recipes, and maintain equipment.

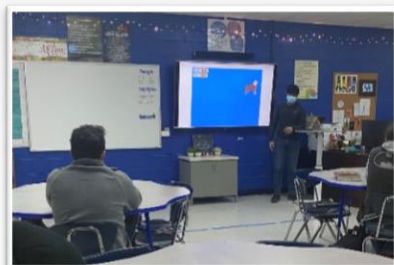
Making Yeast Rolls

Culinary Arts I students put into action their sanitation and measurements skills while learning how to make yeast potato rolls.



Creating Classroom Posters

Students in Cybersecurity show their creative side. They are making classroom posters with important facts, tips, and trends.



Peer to Peer Learning

CHS student, Rishi, shares with Computer Science AP class about his experience in making the Create Task last year for the AP exam. Peer to peer learning is always beneficial in any classroom!



Preventing a Data Breach

Students discuss the techniques to protect them from being a victim of a data breach. Students learn to create an algorithm for your passwords. Students learn that if you use the same login across services like Netflix and Gmail, attackers can use the data that they've stolen to shift toward your more important accounts and attack those.



Preparation is Key

CHS Live commentator, Ryan Lovelace, takes preparation very serious. Ryan is prepared for every single game, is an excellent commentator and has a big future ahead of him.



CHS First Annual Valentine's Day Show

CHS students created a Valentine's Day Game Show titled "Exes vs Couples". Partners were challenged to answer various questions about their partner. At the end of the show, the couples came out victorious. You can watch the show on the CHSLive YouTube page.



CHSLive Student Accepted to Vanderbilt

Congratulations to Sheeko Ndegwa for being accepted to Vanderbilt! Sheeko plans to study journalism and media!



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@CHSLIVE

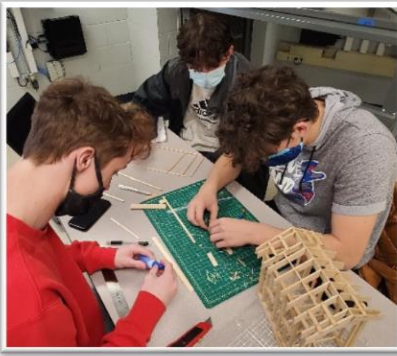


CHSLIVE



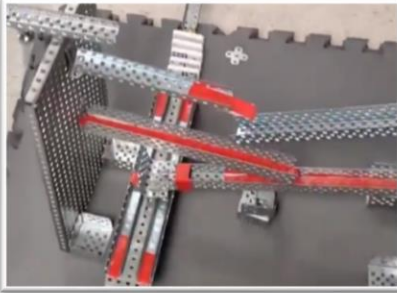
CHSLIVE

ENGINEERING



Building Robots

Civil Engineering and Architecture students practicing their wood framing techniques on small scale balsa wood. Once successful, we can go full scale!



Rube Goldberg Machine

Students build a Rube Goldberg Machine. These builds provide the frame work to understanding simple machines, evaluate the mechanical advantage of simple machines and design simple and compound machines.



Ministry of Mechanics

The Ministry of Mechanics team is continuing to refine the robot design and get it ready for the "virtual" competition this March.

HEALTH SCIENCE



How Strong is Your Chocolate?

Students test materials in biomedical engineering to demonstrate how material properties, such as microstructure, can influence the strength of a material.



Emergent Scenarios

EMS class started running scenarios! Our poor manikin, Rescue Randy, suffered a terrible fall and needed assistance from the EMS students.



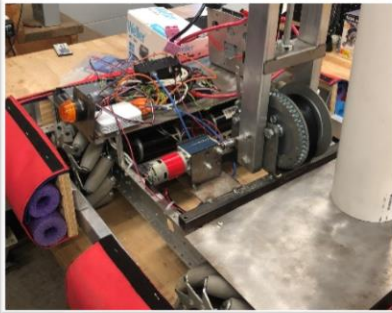
Vital Signs

Medical Therapeutics students learn how to do vital signs assessment (blood pressure, heart rate, respiration rate, and temperature).



AutoCAD

Mr. Smith challenged robotics students to learn and create their own image using AutoCAD. Their design was then cut out with the Plasma Cutter. AutoCAD is a commercial computer-aided design and drafting software application.



FIRST Robotics Team

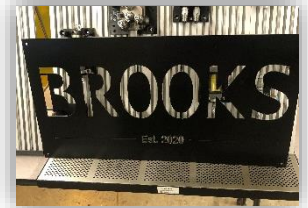
Cleveland's First Robotics Team continues to work on their robot build in preparation for the At-Home Virtual Competition in March.



Fabrication

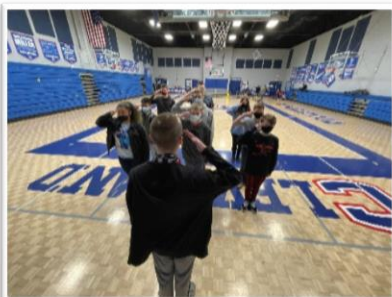
Engineering, Development, and Design students and School Based Enterprise students spent many hours in designing and fabricating many projects this month.

Check out this sign made for Mr. Brooks.



Change of Command

Colonel Campbell conducted a Change of Command ceremony which passed command of the cadet corps from Cadet Colonel Thompson to Cadet Colonel Blair. Cadet Blair is now the senior ranking cadet in the corps.



Military Drill

Military drill is all about executing precise movements as a team. Discipline is required to perform in unison.



Students Prepare for Drill and Marksmanship Competition

Students begin drill practice in preparation for an upcoming drill and marksmanship competition.

CMS BUSINESS



RaiderTV

RaiderTV students are learning and practicing video camera skills. These skills are put to use as they create, film, and edit their own special features to play on RaiderTV. RaiderTV is a daily news show lasting five to eight minutes.



Computer Applications

Our CMS Computer Applications students are loving their new Apple laptops! These laptops enable them to work seamlessly from class to home. It is so nice to have the Microsoft Office suite at our fingertips!

CMS MEDICAL SCIENCE



Learning Muscles

CMS medical science students learning about muscles with the help of the Z-space 3D computer! The Z-space 3D computer is an ultimate virtual reality learning experience that improves student outcomes and increases student engagement through fearless learning.



Medical Timelines

Students create a timeline of important historical events in the healthcare world! The history of medicine shows how societies have changed in their approach to illness and disease from ancient times to the present.

CMS ENGINEERING



Flight Simulation at Cleveland Middle School

Students experience the flight simulator in Engineering. The Redbird TD2 represents a generic single engine piston aircraft. The TD2 has been FAA approved as a Basic Aviation Training Device.



House Plans

Students made a house plan and built a model to scale. Building a model house develops interactive, creative thinking in students.



Arnold Elementary School

Second graders at Arnold Elementary celebrate Engineering Week by becoming little engineers. They were challenged to build the tallest tower using only index cards and tape.



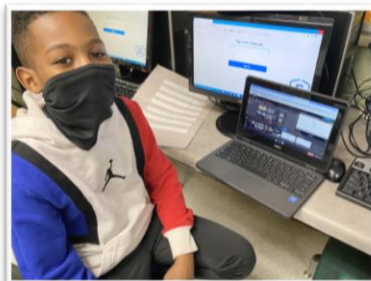
Bylthe-Bower Elementary

Students create animal habitats. This Stem activity project is a hands on approach to learning. Students use science, technology, engineering and math to construct this project.



Candy's Creek Cherokee Elementary School

K-5 students at CCCES have been learning how energy is made, how it travels to our homes and how they can conserve energy at home. Thanks to TVA and Cleveland Utilities for partnering with us and bringing this workshop to our students!



George R. Stuart Elementary

At Stuart Elementary, students in fourth and fifth grade are working through a process to complete a narrated video. This process involves creating a video that contains text, images, and audio narration using an online video editing tool.



Mayfield Elementary

Fourth grade students learn Data Entry with “Smarties Candy Challenge.” They have five chances to stack as many smarties as they can on their popsicle stick in 60 seconds, then record their data in Google Sheets. They found the Mean, Median and Mode, put the amounts in least to greatest, then wrote a reflection.



Yates Primary

Students have the opportunity to drive their Ollie robot. The Ollie robot is an app controlled robot built for built for speed, tricks and fun.



William Godwin, Automotive Academy Instructor

Mr. Godwin is in his seventh year as the Automotive Instructor at Cleveland High School. His mom would say when he was little, he took things apart to see how they worked; therefore, automotive comes natural to him. Mr. Godwin wanted to go into the Marine Corps and become a Military Police Officer, but God had other plans. In 1985, Mr. Godwin went into Diesel Technology at Pasco-Hernando State College in Hernando, FL. Working on big trucks never became a reality, but working on cars did. In 1993, Mr. Godwin went to work for BG Products in the Tampa Bay area. He spent most of his career as a sales representative specializing in Fuel & Lubrication Chemistry.

Although he is an automotive instructor and he does love teaching students about the modern automobile, Mr. Godwin stated that he also feels that work ethics and professionalism is much more important. These character traits are in state standards and are ones that he focuses on with his students every day. Mr. Godwin firmly believes that if students get these down pat, those traits will take them much further in life than just learning a hands-on skill.



Isaac Conrad, Aviation Academy Instructor

This is Mr. Conrad's third year as an aviation teacher. Prior to becoming a teacher, he was an aviation electrician for the United States Marine Corps for nine years and then an United States Marine Corp recruiter for three years. Since becoming a teacher, Mr. Conrad has continued to develop as a professional by earning his private pilots license, completing University Tennessee Martin teacher certifications, and working towards a bachelors degree with Liberty University.



Rebecca Davis, Cosmetology Academy Instructor

Ms. Davis has been a licensed Cosmetologist since 1979. She attended TCAT Knoxville and worked in a salon there until 1983. She then moved to the Washington D.C. area. Ms. Davis opened her first salon, Rebecca of Alexandria, in Old Town, Alexandria, VA in 1984. After selling that salon in 1992, her and her family moved to Cleveland where she opened her second salon, The Renaissance, in 1994. Ms. Davis came to Cleveland High School as the Cosmetology Instructor in December of 2000. She obtained her Cosmetology Instructor's License in 2001. Ms. Davis opened her third salon, Be'ke Salon, in 2010. She has taught Cosmetology at Cleveland High School for 21 years.



David Gluckner, Engineering Academy Instructor

In college, Mr. Gluckner began working as a residential draftsman here in Cleveland, TN, then went into drafting log homes for a company in Athens, TN. When the housing market crashed in 2008, Mr. Gluckner was laid off, and there were few jobs available in his industry, so his family had to heavily rely on God to get them through that time. God answered their prayers when he began working a consistent manufacturing job at Mckee foods in Collegedale, TN. While there, he felt that God was pulling him in a different direction, so he began taking educational courses and looking for a position as a teacher in his field. Within a year, doors were opened and a position opened up as an engineering teacher at Cleveland High School! Mr. Gluckner has been at CHS for almost ten years. Mr. Gluckner stated that he couldn't be happier with the opportunity that he has to share his passion for engineering and architecture!

A Message From The CTE Supervisor

February 26, 2021

With February being National CTE Month, it's purpose is to showcase the value, availability, and rewarding career opportunities for students. Some may perceive "careers" as a dirty, back-wrenching and boring career, but that's not the case at all. Though any job requires effort, today's career opportunities consist of robotics, programming, medical careers, business, teaching, media, automotive, aviation, engineering cosmetology, cybersecurity, criminal justice and culinary arts, all of which is taught in the CTE department at Cleveland City Schools.

As I meet with business and industry partners, they are seeking for employees who can learn and function in a team setting, troubleshoot, and have good work ethics. As developments in technology evolve rapidly, it's crucial that Cleveland City Schools actively pursue and implement changes in order to stay up to date with technological advances. CTE careers; readily available, financially rewarding, and not always requiring a four-year degree. Plus, 80% of the fastest growing occupations are CTE careers!

Once again, I thank you for your continued support.

Sincerely,

Renny Whittenbarger



Connect with us!

Join us on social media and stay up to date on many of the great things happening here everyday.



@ccscte



@ccscte

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Important Dates

March 8 - 12

Spring Break
Schools Closed

April 2

Easter Break
Schools Closed

April 27

CTE Banquet

May 21

Last Day of School for Students
Abbreviated Day

