



CLEVELAND CITY SCHOOLS CAREER & TECHNICAL EDUCATION

January 2022

NEWSLETTER

Career and Technical Education at Cleveland High School

Cleveland City Schools offers a plethora of Career and Technical Education (CTE) pathways at Cleveland High School. CTE provides students with the academic and technical skills, knowledge and training necessary to succeed in future careers and to become lifelong learners. Cleveland High School currently has 1,180 students enrolled in CTE courses, which is 66% of the high school's total student body. CTE prepares these students for the world of work by introducing them to workplace competencies, and makes academic content accessible to students by providing it in a hands-on context. Cleveland's career clusters are organized into 15 broad categories that encompass many occupations from entry through professional levels and are aligned with the U.S. Department of Education's structure of career and technical education (CTE). Career clusters identify the knowledge and skills needed to follow a pathway toward career goals and provide a context for exploring the many occupational options available. Career clusters are reviewed every three years through the Comprehensive Career Cluster Review. Through this review, program managers engage with CTE educators, postsecondary partners, and business/industry partners to review various research and labor data points to determine improvements needed within the career cluster, program of study, and/or course standards. This ensures that course standards are aligned to current labor market needs to support worker pipelines across industries in Tennessee. The career clusters at Cleveland High School include; AFJROTC, Automotive, Aviation, Business and Marketing, Cosmetology, Criminal Justice, Culinary Arts, Digital Media, Engineering, Health Science, Information Technology, Robotics, Teaching as a Profession, and Welding.

Within these classes, Cleveland High School students are not only taught the core skills for their profession, but also the soft skills that many employers say



employees lack in today's workforce. Soft skills are general skills that are necessary for success in the labor market at all employment levels and in all career clusters. Soft skills taught within CTE include: professionalism/work ethic, oral communication, written communication, critical thinking, and problem solving. Regardless of their career path, students must learn to be good communicators, effective team players and creative problem solvers. Students need to know how to lead, solve problems, bounce back when things go wrong and be accountable and dependable employees. These timeless interpersonal and self-management skills will help them flourish and grow at work. We strive to give our students an advantage over the competition by providing opportunities in our classes to develop these valuable skills.

Students within CTE are given various early post-secondary opportunities, industry credentials, clinical internship programs, youth apprenticeship programs, work-based learning and CAPS experiences. This takes student learning to the next level by enhancing the high school experience and better preparing them for future career success.

Join us in the February newsletter as we discuss CTE at Cleveland Middle School and in our March newsletter to see STEM and CTE in our elementary schools.

Source(s): tn.gov; careertech.org; Cambridge.org, Donna Price

To learn more about CTE, follow us on Twitter [@ccscte](https://twitter.com/ccscte), or visit our website www.clevelandschools.org.



Arnold Elementary School

Third graders used the design process to research different aspects of the holiday season.



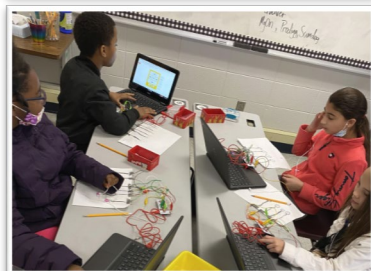
Blythe-Bower Elementary

In conjunction with the TN Department of Energy and the Creative Discovery Museum, students in 4th grade completed STEM activities dealing with force and motion.



Candy's Creek Cherokee Elementary School

Students build with straws to create a tall structure.



E.L. Ross Elementary

Ross students have practiced coding and are now applying their skills by inventing with Makey Makeys and programming Dash Robots.



George R. Stuart Elementary

Students from Stuart explored the field of civil engineering and then used the design process to build a thrilling coaster ride for a marble.



Mayfield Elementary

Mayfield's third and fourth grade learned about snow this month. They mixed baking soda with their choice of either shaving cream or conditioner to create their "snow." After a few minutes to play in their snow, they researched how snow is formed. Then they created a "paper" snowflake online using the paper snowflake maker.



Yates Primary

Students in Ms. Aponte's class use STEM materials by responding to a daily career challenge. They constructed creations that an astronaut would possibly use.

CMS BUSINESS



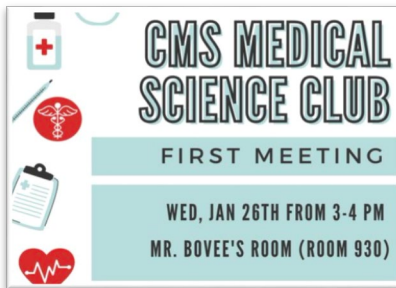
RaiderTV

RaiderTV is excited to welcome a new group of students to our program! They have a lot to learn and have been dedicated to their practice and training schedule the past few weeks.

Practicing New Skills

Broadcasting students at CMS practice skills used on and off camera. Public speaking, teamwork, writing, communication and technology skills are all used to do these studio jobs.

CMS MEDICAL SCIENCE



CMS Medical Science Club

The CMS Medical Science Club hosted their first meeting on January 26.

Making Learning Fun

Mr. Bovee makes learning fun in Medical Science. He loves to try to captivate and inspire young learners toward a future in science or medicine.

CMS ENGINEERING



MagLev Vehicles Project

STEM 2 experimenting with magnets so they can design and build MagLev vehicles.

Welcome to Engineering

Mr. Morris is excited to welcome a new group of students into Engineering this semester!



Serving their Nation & Community

Fulfilling the AFJROTC Mission of “Develop Citizens of Character Dedicated to Serving Their Nation & Community,” cadets accomplished 965 hours of community service last semester!



Blue Raider Riflery

Blue Raider Riflery took on Ridgeland Riflery on January 14.



CyberPatriot Cadets

CyberPatriot cadet team members competed extremely well this season, finishing 2nd in the All-Services Gold Division for Tennessee! Great job, cadets! This is STEM at work.



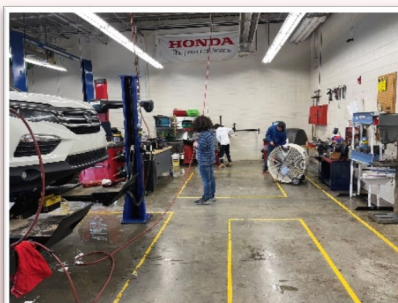
Safety Training Comes First

Entry level automotive students took their online safety training.



Brake Inspection

CHS Advanced Automotive students give back to the community. Students performed an oil change on a 2016 Isuzu NPR for our local Habitat for Humanity.



Students Clean The Automotive Shop

Students prepare for the semester by getting a fresh start and cleaning the shop. Work is done best in a clean and organized environment.



Aviation Employment Opportunities

Aviation students are digging into the basic federal publications on how to earn your private pilots certificate.



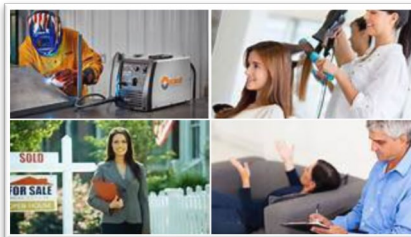
New Flight Simulators

New companion simulators arrived just in time for this semester. Aviation 2 and 3 will soon be learning basic flight maneuvers.



Open House

Mr. Campbell enjoyed meeting parents at CHS Open House. Some parents demonstrated their flight skills with their students in the FMX Flight Simulator.



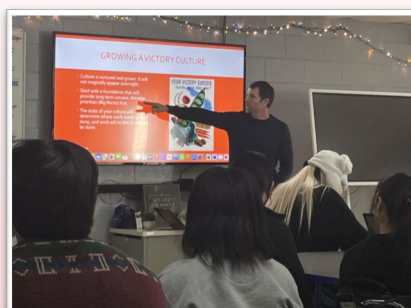
Career Research

CHS Intro to Business is preparing for a career of their choice by collaborating in class and doing research. We have some great future real estate agents, welders, therapist and cosmetologist in this class!



Raider Evolve is Open for Business

Raider Evolve is going in full-force. Students have divided into groups: business and marketing, human resources, sales and production. Each group has been working to start the Raider Evolve business and is ready to start taking orders. Students have the capability to make custom shirts, hats, cups and metal signs.



Students Learn About Industry From Various Guest Speakers

Raider Evolve students started their semester by listening and learning from three different guest speakers, each from a different industry. They heard from Kelly Kiser from Cleveland City Schools Human Resources, Jason Calfee from Mars Engineering and Kim Bivens from City of Cleveland Business Office.



Braiding Techniques

Cosmetology students practice various braiding techniques.



Students Start Preparing for Competition

Cosmetology Club students begin preparing for their styling competition later in the semester by conducting research for their theme, "Vikings."



Cosmetology Club Delivers Gifts to Isaiah 117 House

The Cosmetology Club collected donations for the Isaiah 117 house and delivered them over Christmas break. The students donated lots of toiletries, body wash, shampoo, conditioner, pajamas, undergarments, Christmas gifts for kids, and more!



Survival Plans

Students were divided into groups and challenged to create a survival plan for the following scenario: you are locked inside the school and the doors are locked (nothing in or out) with no water or electricity. How will you survive? Where will you be safe? Where will you get food and water?



Controversial Cases

Students worked on a research project; in controversial cases, what would you do if you were the officer in charge?



Time to Suit Up!

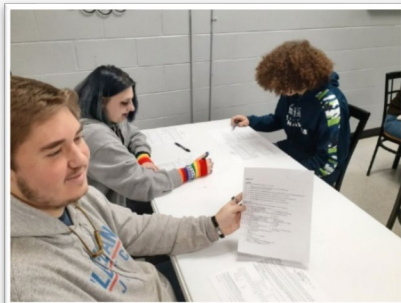
Students "Suit Up" for law enforcement. Students create law enforcement officers and add various items that they feel they will need in the line of duty.

CULINARY ARTS



Preparing for Open House

Culinary Arts II & III students prep cookies for CHS Open House.



Safety First

Culinary Arts 1 students take their safety test. Did you know all CTE students are required to make 100% on their class safety test before any work can be completed?



Culinary Open House

Chef Rush welcomes families for Open House. Parents were able to meet Chef Rush and tour the facilities where their student learns all about culinary.

DIGITAL MEDIA



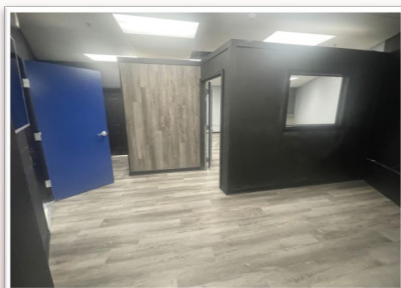
Freshman Prepare to Learn Adobe

New freshman get logged into their new Mac computers for Adobe Creative Cloud.



CHS Live

Have you checked out CHSLive on YouTube or Facebook? You can see their stream live during all home basketball games this semester.



Control Room Remodel

Digital Media is still under construction but the remodel is coming along! Check out the progress so far: new flooring, new control room with observation window, and new welcome area.



@BLUERAIDERSLIVE



@CHSLIVE

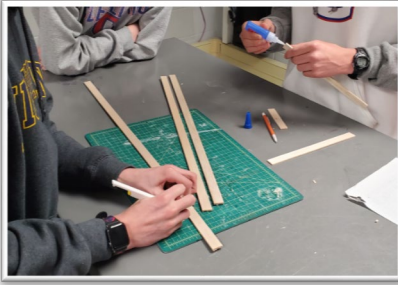


CHSLIVE



CHSLIVE

ENGINEERING



Design Challenge

Starting the semester off right with a design challenge, the classic balsa wood bridge. Who can hold the most weight?



Preparing for Robotics Competition

FIRST Robotics team, Ministry of Mechanics 7406, worked on their robot for the new competition year by disassembling last year's competition robot.



VEX competition

The VEX competition results are in. Team DHENRY DESTROYED their opponents by over 150pts! Great job to all teams for their hard work and determination!

HEALTH SCIENCE



Welcome, Ms. Williams!

CHS Health Science welcomes new EMS teacher, Ms. Williams. We are so excited to have her on our team! She brings with her a wealth of knowledge straight from the healthcare industry.



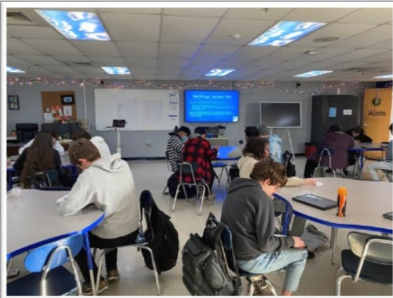
Occupational Therapy Toolkit

Sports Med & Rehab students practice using tools from our Occupational Therapy Toolkit. Students are learning to do ADL's—using new techniques or assistive devices such as one hand shoe and necktie, buttoning devices, ROM and low vision ambulation.



Learning Medical Terminology

Anatomy and Physiology students learn anatomical terminology by placing the term in the correct anatomical location.



Bell Ringer Questions

In the IT Academy classes, students complete “bell ringer” questions in their journals. Each question relates to the lesson and allows students to critically think about the topic of the day. It’s a great way to start class!



Look How Far Technology Has Come!

Did you know? The first VCR was the size of a piano (pictured below in 1956). In the IT Academy classes, students always review how far technology has come, and the results are always fun to look at!



Creating Websites

Web Design students sharing ideas and gaining peer feedback about their plans for creating their own websites.



First Robotics Competition

Our Ministry of Mechanics #7406 are finalizing their plans for their build for the First Robotics Competition!



Welding

Our new Welding program has taken off! We have seen a huge interest in Welding. The students love learning through many hands-on welding activities. Throughout the courses, course content will cover welding basic quality principles and processes (GTAW, SMAW, GMAW), blueprints and schematics and systems.

A Message From The CTE Supervisor

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January 31, 2022

Before COVID-19 even entered the learning landscape, 7,000 students a day were dropping out of school. That's a total of 1.2 million students. That's one every 26 seconds! Reasons for dropping out of school can vary from family responsibilities, learning challenges, employment, lack of engagement, or simply not feeling empowered about what their future might hold for them beyond high school.

According to the Association for Career & Technical Education, students enrolled in CTE programs have a graduation rate of 93% (Cleveland High School 95.4%) compared to the national freshman average of 80%. And according to ACTE, "Taking one CTE class for every two academic classes minimizes the risk of students dropping out of high school." We can increase the chances of students graduating high school by offering high-quality and engaging CTE programs that allow students to explore career options and participate in our CAPS program while they're still in school and have the support of educators who are cheering them on and who are champions for their success.

CTE and career-ready programs offer the greatest chance of our students sticking with school, graduating and pursuing a career right out of high school, or choosing to enroll in college.

Sincerely,

Renny Whittenbarger



Connect with us!

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



@ccscte



@ccscte

Important Dates

Feb 21

President's Day - Schools Closed

Feb 22

Staff Development – Schools Closed

March 7-11

Spring Break – Schools Closed

April 15

Easter Break – Schools Closed

April 18

Parent Conferences – Schools Closed

April 21

CTE Awards Banquet

May 20

Abbreviated Day/Last Day of School for Students

May 23

Staff Development – Schools Closed

