



CLEVELAND CITY SCHOOLS CAREER & TECHNICAL EDUCATION

September 2021

NEWSLETTER

In the Age of Coronavirus, Career-Tech Ed is More Important Than Ever

Career Technical Education (CTE) is more important than ever in today's rapidly changing world. Former CTE students are heroes serving on the front lines during this global pandemic. They are healthcare workers pulling 16-hour shifts and treating our loved ones. They are manufacturing employees working tirelessly to provide life-saving supplies to hospitals, senior care facilities and grocery stores. They are educators delivering the best education possible to their students online. They are scientists racing to find a vaccine. And they are transportation, distribution, and logistics professionals working day and night so that we all have the supplies we need.



At the same time, 22 million Americans have filed for unemployment in only a few weeks, a number we have not seen since the Great Depression and which is guaranteed to rise. In light of the realized and forecasted economic downturn, we must act swiftly to mitigate employment and economic disruptions, particularly for the most vulnerable, while also preparing a talent pipeline for industries that are in high demand and most impacted.

Coronavirus has shined a light on and amplified a whole host of challenges. One of these is the nation's digital divide, which has been elevated due to the growing reliance on distance learning. States, schools and colleges need additional funding for the digital and physical infrastructure necessary to rapidly transition classroom experiences into quality, online education. For CTE programs, the switch to online learning can be particularly challenging as programs work to incorporate the real-world experiences and hands-on learning typically associated with many CTE classes. There are several worthy solutions, including taking advantage of technologies like augmented and virtual reality, but they come at a steep price. That's exactly why additional federal investments are so important: we need to make cutting edge learning approaches available to ensure learners can gain and demonstrate technical competencies that are critical for their career success both now and in the future, including in fields that are crucial to beating back the ongoing pandemic. Further, instructors, who have borne the brunt of a swift and completely unanticipated shift to online education need professional development to support their evolving responsibilities.

Looking ahead to the economic aftermath of the Coronavirus, there will be significant demands by learners of all ages for fast but quality upskilling and reskilling programs that result in careers with family-sustaining wages. This requires CTE programs, especially at the postsecondary level, to be nimble and proactive but they must also be proven. During the last recession, college enrollment increased by nearly 2.5 million students or 16 percent. The increase was largely due to nontraditional aged college students, and 50 percent of the new enrollments went to community colleges. A similar trend can be expected with the current predicted economic downturn. Importantly, we must ensure that additional federal resources to community and technical colleges and area CTE centers are at least proportional to this growth so that the most vulnerable learners have the full array of supports needed to regain their educational and economic footing. Additional federal investments targeted at wraparound services will help give learners the greatest chance at success and should address food and housing insecurity, financial aid flexibility, transportation, child care, and job search assistance.

While we do not yet know the long-term impact this pandemic will have on our nation, what we do know is that education, especially CTE, will be at the center of rebuilding our economy and the lives of many Americans. As Congress considers how best to address this ongoing tragedy, innovation and investment in our education and workforce systems will help foster a more equitable and accessible path forward that meets the needs of a rapidly evolving workplace and world.

Article written by: Kimberly Green is the Executive Director of Advance CTE and LeAnn Wilson is the executive director of the Association for Career and Technical Education (ACTE) Read this op-ed as it originally appeared in Medium.com.

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



Arnold Elementary School

After learning about the body, first grade students at Arnold Elementary School were able to make their own set of lungs.



Blythe-Bower Elementary

Students learned a lot about lighting from Sheldon Harrell and Rebecca Sims with News Channel 9. Students are learning foundational skills to gear up their broadcasting program!



Candy's Creek Cherokee Elementary School

Ann Collins ("Dr. Booklove") received the exciting news that her grant proposal, "Plan, Create, Learn ... MAKERSPACE!" has been awarded from the Tennessee STEM Innovation Network. The \$5,000 grant will provide many opportunities for all our students to engage in STEM activities.



George R. Stuart Elementary

Second graders at Stuart Elementary read the story "Ivan, The Incredible Shopping Mall Gorilla" and researched characteristics of a healthy habitat. Students then paired up to draw a blueprint of what a habitat for a gorilla family might look like and worked collaboratively to build a prototype from building blocks.



Mayfield Elementary

These first graders learned about all the systems in the human body. Now, they're excited to celebrate their "medical school graduation." They are building solid background knowledge to support reading comprehension.



E.L. Ross Elementary

Mrs. Tillotson's class learned about physical and chemical changes in matter by making s'mores. So much fun!



Yates Primary

First grade students at Yates Primary studied the human body, so they constructed their own set of lungs in STEAM classes.

CMS BUSINESS



RaiderTV Broadcasting

These 8th graders work as a team to write, film and produce a morning show for Cleveland Middle every day. It is hard work, but a wonderful opportunity to learn more about digital media!



Students Learn to Code

6th grade Business Communications students are doing some incredible coding at CMS! They are using Scratch by MIT to practice real life skills used in the coding industry.

CMS MEDICAL SCIENCE



Students Perform Concussion Tests

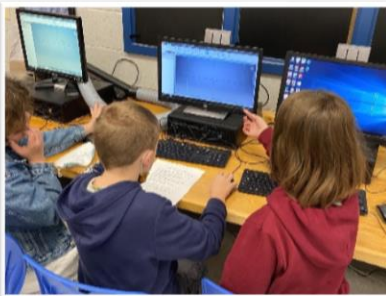
CMS Medical Science students have fun doing concussion testing in class!



Students Perform Concussion Tests

Students work on spine boarding skills in class. Spine boarding is a technique that is used to transport an athlete for emergency care whenever a cervical spine injury is suspected.

CMS ENGINEERING



Learning Though Teaching

The best way to learn something is to teach others! Students helping students navigate Autodesk Inventor CAD program.



Using Engineering to Help Others

Sometimes you apply engineering skills to help other classrooms with their new furniture. Engineering at CMS is the best!



Students Have the Opportunity to Earn Private Pilot Scholarship

AFJROTC currently has five students who are eligible to apply for Flight Academy, a highly competitive opportunity to earn full scholarship for a private pilot's license.



True Leadership

Instead of relaxing prior to the Color Guard for tonight's game, they decided to clean up in the outside commons area! Cadets Coleman and Clayton rock—they are a couple of true leaders in their school!



Blue Raider Corps Cadets in Uniform

CHS Blue Raider Corps cadets wore their Class A uniform for the first time this semester. They looked extremely sharp and received compliments from multiple teachers! The photo is their 4th block in formation after their Open Ranks Inspection.



Students Teaching Students

CHS Automotive students teach entry level students how to lift up a car with a hydraulic floor jack and jack stands.



Electrical System Check

CHS Automotive II students are digging deep into this vehicle while they learn to use the Snap-On EECS750A. This unit performs a complete electrical system check including the battery, starter and alternator.



Battery, Starting, Charging Snap-On Certification

Four CHS MLR II students are the first to complete and pass this four hour course and certification.



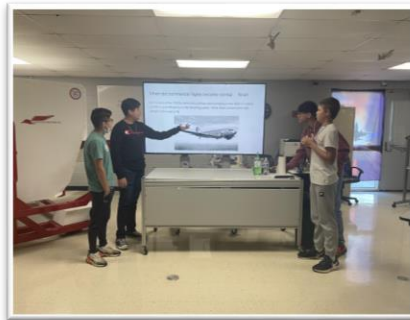
Codex on the Flight of Birds

Aviation I students received a lesson on the “Codex on the Flight of Birds” by Da Vinci and made paper helicopters to apply some of the lessons learned.



Social Media Challenge Question

Mr. Conrad challenged Cleveland High School students on social media to answer this question: “Which Cleveland High School Aviation Student can tell me what this is and how it is used?”



Student Present Changes in Aviation

Students were divided into groups and given a timeframe to study the changes in aviation during that time. Students then presented their findings to the class.



Blue Baristas

The Blue Baristas made their rounds for the Cleveland High School Hall of Fame Ceremony!



Class Ambassadors

Mrs. Person introduces the fall semester Business Academy Ambassadors! These students will represent the business program with dignity.



Business Students Celebrate Spirit Week

CHS Business Academy went back to the 70's, 80's and 90's for Spirit Week!

COSMETOLOGY



Aromatherapy

Cosmetology students learn to incorporate essential oils into their services.



Principles of Hair Design

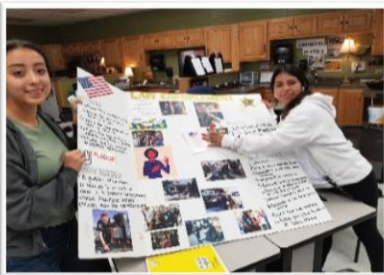
Students create a digital presentation illustrating the principles of hair design.



Nail Anatomy

Students are completing a nail anatomy project to learn the parts of the nail in preparation for manicuring and pedicuring.

CRIMINAL JUSTICE



Law Enforcement Pledge and Code of Ethics

Students study and present the law enforcement pledge and code of ethics.



Solving the Case

CHS Criminal Justice students try to solve the case to figure out who killed Mr. Dead.



Fingerprinting a Corpse

Students learn the proper technique to fingerprint a corpse.

CULINARY ARTS



Food NV Food Truck Owner Speaks to Culinary Students

Culinary Arts II got to experience what a food truck career looks like from Seth, owner of Food NV food truck.



Pancake Math

CHS Culinary Art I students complete their pancakes after their pancake math section of the project.



Raider Café Caters The Hall of Fame Reception

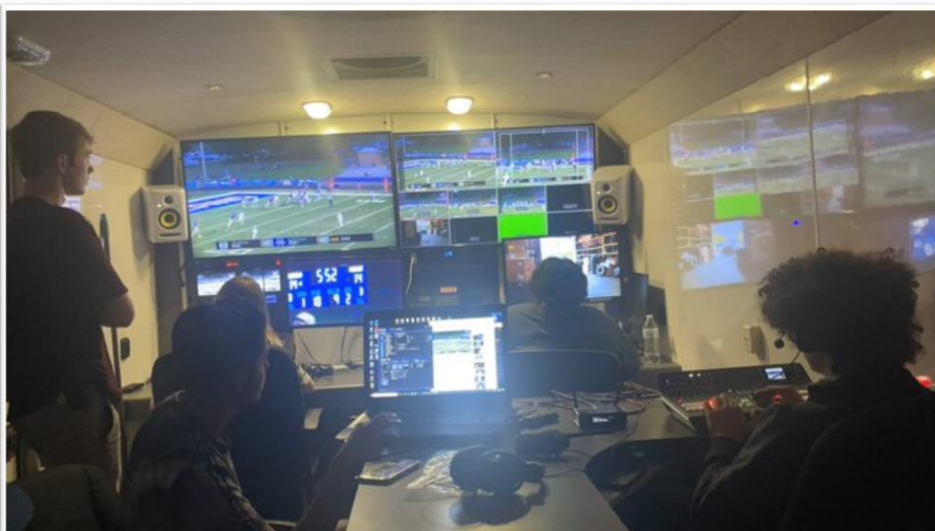
Faith, C-Heart and Mary Grace from the Raider Café set up and served hors d'oeuvres at the CHS Hall of Fame reception.

DIGITAL MEDIA



CHSLive at Football Games

CHSLive crew has been hard at work this semester at all the home football games. You can see their work live on the CHSLive YouTube channel.



@BLUERAIDERSLIVE



@CHSLIVE

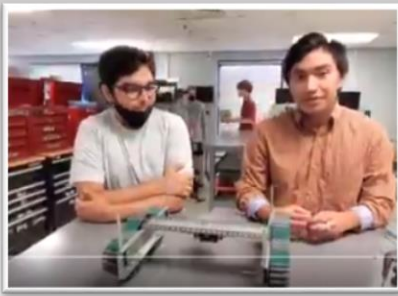


CHSLIVE



CHSLIVE

ENGINEERING



Simple Machines and Gear Ratios

Principles of Engineering Ambassadors explain how simple machines and gear ratios are helping them create their competition robot and how this knowledge is preparing them for the future!



Student Challenge

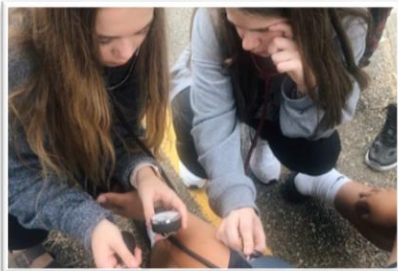
Principles of Engineering students were tasked to build gear trains to run a fan and lift 10 pounds. The catch: Do both by using the same gear train!



Property Surveying

Civil Engineering and Architecture students were introduced to a transit system for property surveying. They were all happy to get outside and learn something new!

HEALTH SCIENCE



EMS Reviews Vital Signs

Miss Dye's EMS Class gets outside to learn and review how to take vital signs.



Transfer Lab

Health Science students learn all about patient transfers. This is real world skills in action!



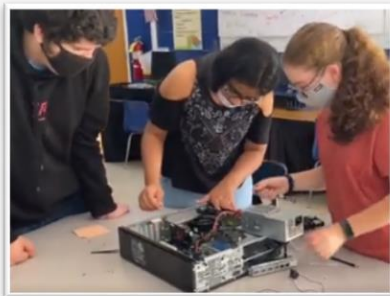
Learning Facial Muscles

Anatomy and Physiology students practice learning the facial muscles with balloons.



Polartec Speaks to Dr. Saez's Robotics Class

Matt and Cole from Polartec spoke to Robotics 1 classes. They provided insights to career and industry related topics while challenging them for manufacturing week. Students look forward to their industry build in October!



Examining Hardware Components

Computer Science students took old computers apart to examine the hardware components. They enjoyed the process and getting their hands into the machines! Thanks to our industry partner, Isbill Tech, for the donations.



Innovations in Technology

Computer Science students created a timeline project of various innovations in technology. They had some very creative posters from calculators, phones and cameras!



Vex Robotics

Robotics 2 students are engaged and super excited about our new Vex Robotics V5 Robotics Bundles. Students are defining problems, planning solutions, making models, testing models, reflecting and redesigning.



Cleveland Utilities Partnership

Thank you Cleveland Utilities for investing in our students and community by partnering with Cleveland High School's Youth Apprenticeship program. Our students are very excited about the program and future opportunities that will be offered to them!



Classroom Guest Speakers and Teachers

To keep students engaged and content relevant, Cleveland Utilities, Cleveland State Community College, and Cleveland City School's Maintenance Department are in the classroom three to five days per week.

A Message From The CTE Supervisor

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September 30, 2021

Often times, students assume that they must become a doctor, attorney or business person in order to be successful; however, those are very broad career paths that tend to be highly competitive in terms of job opportunities. Career-driven and technical classes diversify students' job options and allows them to have a viable career path that they can continue to pursue while in middle and high school, as well as after graduation. Not only do they learn more about their aspiring job field, but they also have the freedom to explore other industries that they may not have previously considered. In other words, they are not limited to a single career option.

Ultimately, Cleveland City Schools CTE programs set all students up for career success no matter their education or which career path they choose to take after graduation.

Sincerely,

Renny Whittenbarger



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



@ccscte



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Important Dates

Oct 4 - Oct 8

Fall Break - Schools Closed

Oct 11

Staff Development - Schools Closed

Nov 22

Staff Development - Schools Closed

Nov 23 - Nov 26

Thanksgiving Break - Schools Closed

Dec 21

Abbreviated Day

Dec 22 to Jan 4

Christmas/New Years Break - Schools Closed

