



CLEVELAND CITY SCHOOLS CAREER & TECHNICAL EDUCATION

September 2022

NEWSLETTER

New Faces

This month we are highlighting some new faces in the CTE department of Cleveland Middle School. These Gentleman came on board for the 2022-23 school year and are already making a big impact! They are covering subject areas of digital media, business communications, STEM, and career explorations. Read on below for more insight into what these three teachers are doing in Cleveland Schools.



Andrew Coggin- I am married to my wife Emily and we have two children, Bryson and Everly. I came to Cleveland Middle to teach Digital Media after teaching band at Bradley Central High School for the past ten years. As a band director, my goals for the students at Cleveland Middle are the same as they were for the band students, which is to prepare them for their future and to become great people. I strive to make sure my students not only know their content but also other skills necessary for success in life. My hope for the digital media program is to prepare my students for the next step in their education at Cleveland High School. I hope to teach them the skills necessary to be successful in the CHS Live program there.

Mark Denietolis- I graduated from a Massachusetts Maritime Academy with a BS in Operational and Mechanical Engineering and a US Coast Guard License as a Marine Engineer. I sailed as an engineering officer on ships ranging from WWII Victory ships to modern Super Tankers over the next twelve years. I think that it is so important to show our students the connections that bridge technology and daily life. We hear it everyday as educators, why am I learning this? STEM is an opportunity to relate concepts and answer that age old question. If I can ignite that interest in my students going forward with the knowledge and practical experience I have gained in my life, it will provide a clearer pathway for the students as they navigate their learning pathways. My wife and I are the parents of six children.



Robby McIntire- I am married to my best friend of 12 years, Amber, and the father of two, Elliott and Kaylee. For the past 7 years, I have been the computer science teacher at Bradley Central. While there, I enjoyed creating a culture of student learning while empowering them to move on to the next level in life, either at college or going into the information technology field for themselves. I am hoping to get the students at Cleveland Middle School exposed to computer science and ready to be Raiders at the next level. I would love to see all of my students go on to high school, stay in computer science, and to finish with their diploma and be a ready graduate.



Arnold Elementary School

The kindergarten students are learning more about the alphabet. They read the book, Chicka Chicka, Boom Boom, and used the design process to create alphabet trees. The challenge was to see whose tree could hold the most letters.



Blythe-Bower Elementary

An elementary cafeteria can get quite loud, so a class of 4th grade students are working on a Problem Based Learning Unit. They are using their studies on sound waves to devise ways to absorb and deflect the sound waves to make their lunch more enjoyable.



Candy's Creek Cherokee Elementary School

The first graders are creating homes and buildings.



E.L. Ross Elementary

Students are learning about careers in technology. 5th graders explored digital animation and completed the Red Ball Challenge. 3rd and 4th graders became graphic designers during a Google Slides project.



George R. Stuart Elementary

Fifth graders at Stuart are learning all about drones. Once they master the controls and how to use the flight modes, students will make career connections and discover real-world examples of drones being used for good things.



Mayfield Elementary

The first grade is loving their new coding robots called Sphero Indi. The robot teaches block coding at the most simplistic level in a fun way using a little car, Indi, who reads color tiles to create an algorithm. Depending on the color of the tile, Indi does a different function. This can create a multitude of different paths and patterns with their algorithms.



Yates Primary

Kindergarten students planted seeds in their Aero garden in hopes that they will be in full bloom when they begin their unit on plants in October. They are hoping to sample lettuce, spinach, and tomatoes soon.

CMS BUSINESS



From Scratch

Students tried out hand animations. They created their own version of the game Pong through coding and sequencing.



Digital Media

Raider TV Jr students researched TV show formats and what current shows have those formats.

CMS MEDICAL SCIENCE



Health Care and Technology

Health Science students wrote and filmed commercials for a health care facility.



Balancing Act

Medical Science students work on balance, testing their coordination and communication skills.

CMS ENGINEERING



Learn, Then Teach

Engineering students are learning and then teaching about the strongest engineering shapes and designing virtual bridges.



Custom Engineering

Students were given a bird house kit to construct and design their own custom bird houses. They were able to express their creativity in the paint and design.



Distinguished Award

TN-20181 earned the Distinguished Unit Award with Merit on its inspection last year--a big accomplishment--and the guidon streamer was recently received.



Hall of Fame

JROTC students were privileged to hear from Captain Tucker Tipton ('09), recent hall of fame inductee, about his time at Cleveland High School and his experience as an active duty Air-to-Surface Test Flight Commander.



Reaching Higher

Cleveland High School JROTC program had a great visit from the AFJROTC Region 7 Director. Our students have solidified their goals and are moving forward to attain them.



Next Steps

Automotive students are exploring post secondary opportunities with the Tennessee Army National Guard.



Capstone

Automotive Student, Edwin Hunter, is working on the beginning stages of his Capstone Project. He is doing a cut-out of the Transmission & Torque Converter. Similar cut-outs are sold by companies who charge thousands of dollars.



Hands On

Advanced automotive students set the timing on one of the student's personal vehicles, a 1993 Nissan.



Tango Flight

Tango Flight students are working alongside community mentors and are learning how to use tools for building the two-seater Tango Flight plane.



Students Lead

Improving communication and leadership skills in the Aviation class. Students ran the "good things" session to start the class.



News Worthy

Dave Staley, with News Channel 12, did a story on Tango Flight. He interviewed Colonel Campbell, the aviation teacher, students involved in the build and Renny Whittenbarger, the director of CTE.



Essential Skills

Students learn the importance of effective communication, ethical behavior, professionalism and stress management. They practice these skills with their peers in scenarios that can occur in real life.



Collaboration and Teamwork

The Business Academy worked on their teamwork and collaboration skills. The mastery of these skills is tremendously important to success in a variety of workplaces.



Raider Evolve

The Raider Evolve Business class learned about professional attire and had professional photos taken.

COSMETOLOGY



Communication is Key

Cosmetology students practice communication skills for an effective client consultation.



Beauty of Math

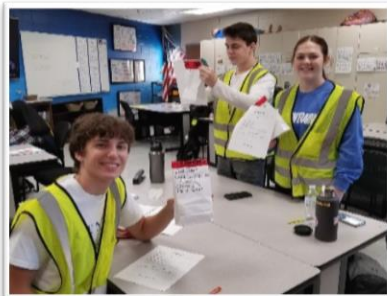
Using geometry, Cosmetology students practice an A-line Bob.



Treatments

Students are learning about bones and muscles of the head, face and neck in order to perform facial treatments.

CRIMINAL JUSTICE



Evidence Test

Criminal Justice students were tested over what they learned about how to collect evidence and labeling an evidence bag.



Notorious Presentations

Criminal Justice students did research on notorious criminals and presented their findings to their class in order to better understand the kind of person that is dealt with in law enforcement.



FBI Visit

Criminal Justice students had FBI agent, Robbie Marcum, come speak to their class on real life experiences in law enforcement and the agency.

CULINARY ARTS



Soups On

Culinary Arts, level 2, class has been in the kitchen cooking their first recipes of Wisconsin Cheddar Cheese and Chicken Minestrone soups.



Cooking Something Up

Culinary students have been busy learning to cross utilize a simple ingredient like dough into bread, cinnamon rolls, and croutons.



Catering to the Masses

Culinary students are learning to organize and prep for upcoming catering events, such as CTE advisory committee meetings, staff lunches, and other district meetings.

DIGITAL MEDIA



Broadcasting

CHS Live students filmed and broadcasted the 2022 Cleveland High School Hall of Fame induction.



CHS Live

Students produce the live stream from the field and in the press box for the Friday night football games.



Promotions

The Digital Media 4 team made promotional videos for businesses throughout Cleveland, including a local barber shop. The videos turned out fantastic and the students set the bar extremely high for the next team.



@BLUERAIDERSLIVE



@CHSLIVE



CHSLIVE



CHSLIVE



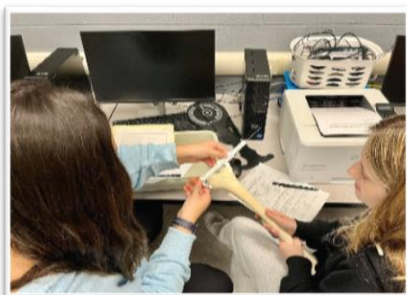
Perfecting Techniques

Diagnostic medicine students in the Health Science Academy perform ultrasound imaging techniques.



Alternative Medicine

Pharmacy students make lip scrub and bath salts as part of the alternative medicine unit. The classroom smelled awesome!



Bones Tell All

Anatomy and Physiology students learn about forensic anthropology by identifying the race, gender, height and age of these bones.



Know Your Options

Tennessee Tech came to speak to the IT Academy students about their programs. Tennessee Tech offers many technology related degrees in state of the art facilities.



Alumni Visit

David Tucker, CHS alumni ('99) and Hall of Fame inductee, came to share about being a software engineer with the IT Academy students.



Technology Timeline

The computer science class got to show off their creative side with technology timeline posters! Students chose a technology topic, researched its history and advancement, and did table discussions to share their findings and get feedback.

ROBOTICS



Importance of Precision

Students learned about Precision Measurements. Students were challenged to create a blueprint of the classroom using different measuring techniques.



Different Opportunities

The National Guard brought one of their vehicles and spoke to the students about different opportunities that Guard has to offer. These kids aren't going to be "oxygen thief's" but a important part to society.



Robot Battle

Students in Robotics 1 and 2 have been training for class competitions. These students have been working hard building and programming their robots.

WELDING



New Gear

The welding students got fitted and suited up with new welding jackets for the school year.



Watching and Doing

Students in the welding program get hands on and started learning some of the basics in welding. Students learn by doing and watching others.



New Members

All 24 of these students have become members of American Welding Society.

A Message From The CTE Supervisor

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September 30, 2022

As we hear more and more about the need for Computer and Information Technology occupations, it's clear there is an urgent and immediate need, as well as long-term career opportunities. These workers create or support computer applications, systems, and networks.

The Bureau of Labor Statistics (BLS) states the overall employment in computer and information technology occupations is projected to grow 15 percent from 2021 to 2031, much faster than the average for all occupations; this increase is expected to result in about 682,800 new jobs over the decade. In addition to new jobs from growth, opportunities arise from the need to replace workers who leave their occupations permanently. About 418,500 openings each year, on average, are projected to come from growth and replacement needs. The median annual wage for this group was \$97,430 in May 2021, which was higher than the median annual wage for all occupations of \$45,760.

Though many companies require a college degree, Cleveland City Schools offers students Computer Science and Information Technology courses. These courses allow high school students opportunities for Dual Credit, Dual Enrollment, and Industry Certification while in high school.

Renny Whittenbarger

Sincerely,

Connect with us!

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



@ccscte



@ccscte

Important Dates

October 3-7

Fall Break – Schools Closed

November 8

Election Day– Schools Closed

November 21-25

Thanksgiving Break – Schools Closed

December 22-January 4

Christmas/New Year Break – Schools Closed



Created by Jennifer Higgins