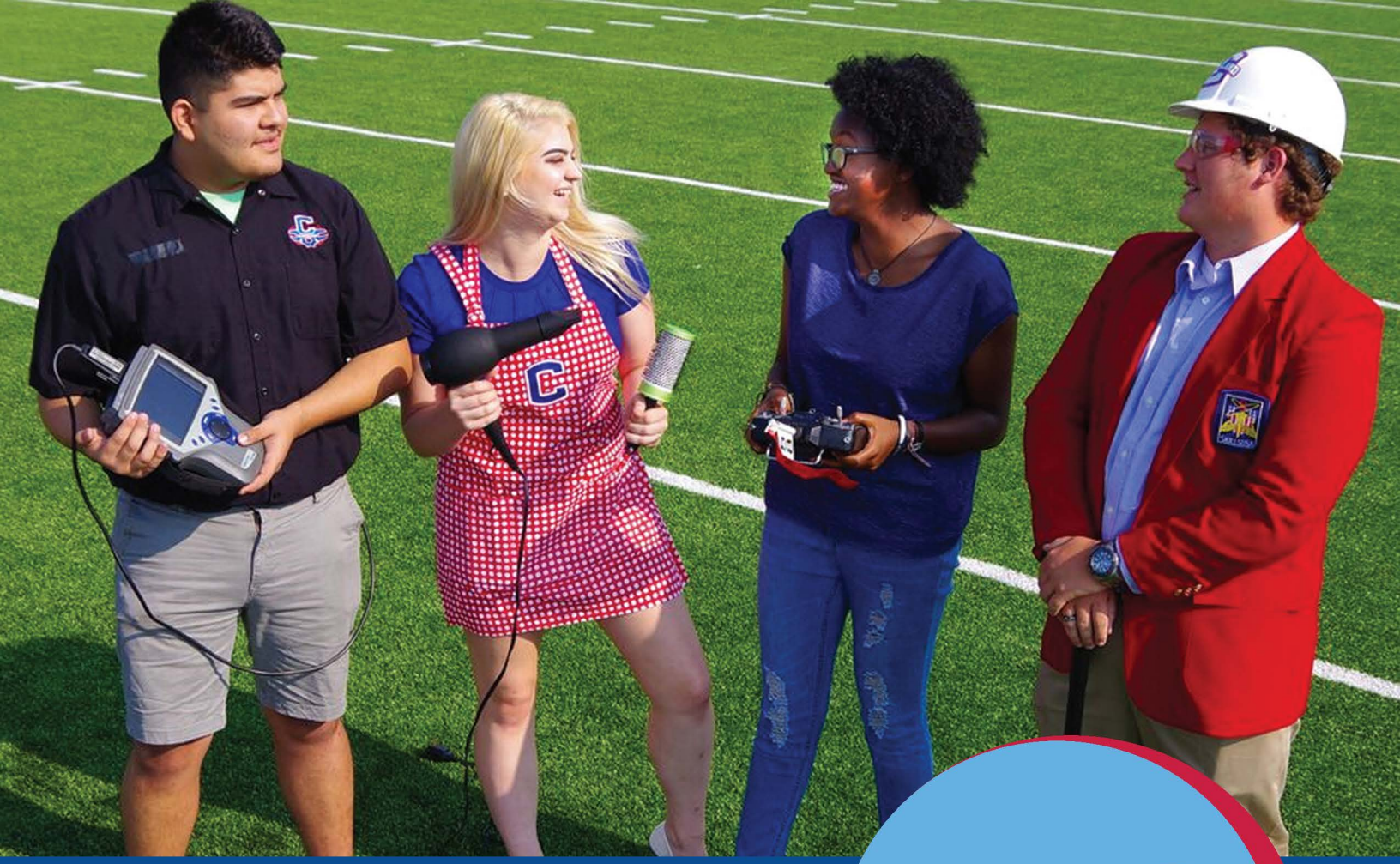


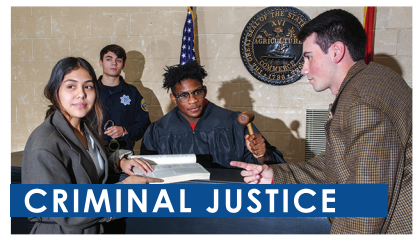
SHAPING THE FUTURE

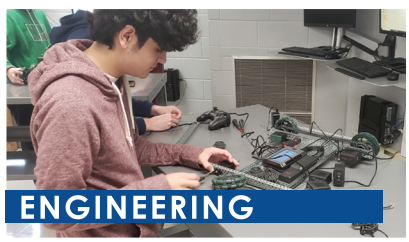
Cleveland

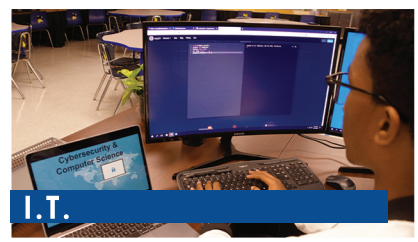
CITY SCHOOLS

Career and Technical Education

www.clevelandschools.org/cte







ABOUT CLEVELAND CAREER AND TECHNICAL EDUCATION

Cleveland's cutting-edge, rigorous and relevant career and technical education prepares youth and adults for a wide range of high-wage, high-skill, high-demand careers. Cleveland's Career & Technical Education consists of eleven nationally recognized career clusters with the ultimate goal of preparing students for success at the post-secondary level and in their chosen careers. These programs offer students a direct pathway to college and/or career and lead to meaningful employment. Students in our CTE programs graduate with industry licenses and certifications as well as college credit.

TABLE OF CONTENTS

Cleveland City Schools ..... page 3
About CTE ..... page 5
Dual Credit / Dual Enrollment ..... page 7
Industry Certifications ..... page 8
Career and Technical Student Organizations ..... page 9
CAPS (Center for Advanced Professional Studies) ..... page 10
Elementary Career Exploration ..... page 11
Cleveland Middle School - Business and Communications Academy ..... page 12
Cleveland Middle School - Engineering Academy ..... page 13
Cleveland Middle School - Medical Science Academy ..... page 14
Cleveland High School - Air Force JROTC ..... page 15
Cleveland High School - Automotive Academy ..... page 17
Cleveland High School - Aviation Academy ..... page 19
Cleveland High School - Business and Marketing Academy ..... page 21
Cleveland High School - Cosmetology Academy ..... page 23
Cleveland High School - Criminal Justice Academy ..... page 25
Cleveland High School - Culinary Arts Academy ..... page 27
Cleveland High School - Digital Media Academy ..... page 29
Cleveland High School - Engineering Academy ..... page 31
Cleveland High School - Health Science Academy ..... page 33
Cleveland High School - Information Technology Academy ..... page 45
Cleveland High School - Teaching as a Profession Academy ..... page 47
Cleveland High School - Robotics Academy ..... page 49
Cleveland High School - Welding Academy ..... page 51
Course Offerings ..... page 53
Message From The CTE Supervisor ..... page 56

PREPARING STUDENTS FOR HIGH-SKILL, HIGH-WAGE, AND IN-DEMND CAREERS

CLEVELAND CITY SCHOOLS

At Cleveland City Schools, our vision is to inspire and educate thriving and confident students who become exceptional life learners and contributing citizens in their community. This drives the varied strategies and activities that are in place to ensure continuous academic progress for all students. Students are challenged with a rigorous curriculum that considers the individual learning styles, program preferences and academic capabilities of each student, while utilizing the highest quality professional educators, administrators and support staff available.

9 Schools | 745 Staff

5,800 Students K-12

1:1 Laptop Deployment

20.1 ACT Composite

PORTRAIT OF A GRADUATE

PREPARING STUDENTS TO BE COLLEGE, CAREER, AND LIFE READY

COMMUNICATION

- Clearly exchange information through varied modes of communication (oral, written, visual, and/or performance)
- Utilize technology and media effectively
- Engage others through active listening and informed, logical responses
- Use effective interpersonal skills

COLLABORATION

- Work cooperatively with team members to achieve a goal
- Value diverse viewpoints and demonstrate flexibility
- Share success through affirmation and accountability
- Build positive relationships

CREATIVITY

- Create, develop, refine, and implement innovative ideas
- Understand there are often multiple ways to solve a problem
- Form original ideas in response to feedback, setbacks, and failures
- Express curiosity and inquiry in pursuit of solutions

CRITICAL THINKING

- Assess and analyze relevant information to find solutions to problems
- Make sound judgments and wise decisions
- Reflect and reason
- Understand “bigger picture” issues, then collect and connect details to reach solutions

CHARACTER

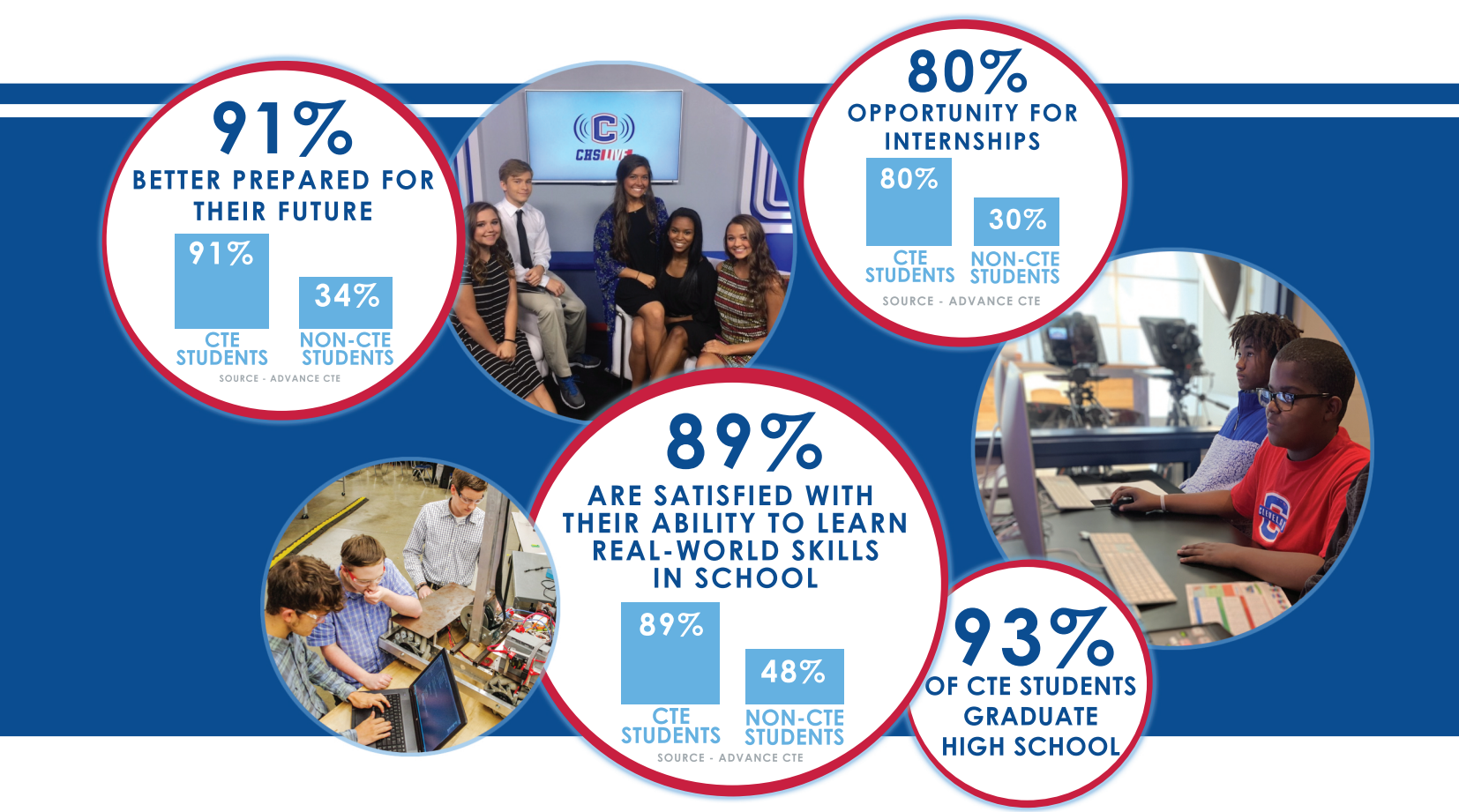
- Exhibit moral and ethical integrity
- Model respectful and responsible behaviors
- Be community-minded and civic-minded by showing empathy, compassion, and kindness
- Demonstrate self-motivation,discipline, and a strong work ethic

ABOUT CTE

Career and Technical Education (CTE) provides students of all ages with the academic and technical skills, knowledge and training necessary to succeed in future careers and to become lifelong learners. CTE prepares 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.

WHY CHOOSE CTE

Career and Technical Education (CTE) gives high school students the chance to get a head start on preparing for college and careers. In CTE programs students learn how core school subjects like math, science and writing are used in real-life. CTE students have the opportunity to participate in hands-on training in their chosen program and gain real world experience through job shadowing and internships. Many programs offer students the opportunity to earn nationally recognized certifications.



CTE CAREER CLUSTERS

Cleveland's career clusters are organized into 11 broad categories that encompass 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.

- Advanced Manufacturing
- Arts, A/V Technology, & Communications
- Business Management & Administration
- Education & Training
- Health Science
- Hospitality & Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections, & Security
- STEM
- Transportation

"FOR THE THINGS WE HAVE TO LEARN BEFORE WE CAN DO THEM, WE LEARN BY DOING THEM."

-ARISTOTLE

DUAL CREDIT

Local dual credit is a high school course aligned to a local postsecondary institution's course and exam. Students who pass the exam earn credits that are accepted and/or recognized by the local postsecondary institution. Courses are taught by licensed high school teachers or certified college instructors approved by the school system and the postsecondary institution.

DUAL CREDIT OPPORTUNITIES

- Aviation 3 Advanced Flight DC
- Business Communications DC
- Business Entrepreneurship Practicum DC
- Business Management DC
- Computer Science Foundations DC
- Cosmetology 1 DC
- Cosmetology 2 DC
- Cosmetology 3 DC
- Cosmetology 4 DC
- Criminal Justice 3 DC
- Culinary Arts 3 DC
- Culinary Arts 4 DC
- Digital Media Production 3 DC
- Introduction to Engineering Design DC
- Principles of Engineering DC
- Civil Engineering & Architecture DC
- Robotics 2 DC

DUAL ENROLLMENT

Dual enrollment (DE) is a postsecondary course, taught either at the postsecondary institution or at the high school, by postsecondary faculty or credentialed adjunct faculty. Students are enrolled at the postsecondary institution and earn postsecondary and high school credit upon completion of the course.

DUAL ENROLLMENT OPPORTUNITIES

- Automotive 4 DE
- Cosmetology 3 DE
- Cosmetology 4 DE
- Cybersecurity 2 DE
- Anatomy & Physiology 2 DE
- Emergency Medical Service DE
- Civil Engineering & Architecture DE
- Principles of Engineering DE
- Robotics 2 DE
- Robotics 3 DE
- Robotics 4 DE

Cleveland State Community College

Chattanooga State Community College

Lee University

Tennessee College of Applied Technology

Middle Tennessee State University

RIT Rochester Institute of Technology

INDUSTRY CERTIFICATIONS

Industry certifications (IC) are earned through secondary and postsecondary career and technical education programs and courses. High school students are encouraged to focus their elective credits on robust, career-aligned learning pathways. Robust learning pathways culminate with the achievement of industry certifications, meaningful work-based learning experiences, and/or attainment of postsecondary credit hours through early postsecondary opportunities. As it pertains to industry certifications, all department-promoted certifications are aligned with postsecondary and employment opportunities and with the competencies and skills that students should have acquired through their chosen programs of study.

AUTOMOTIVE
- ASE National Certification
- OSHA 10

AVIATION
- Federal Aviation Administration (FAA) Private Pilot

BUSINESS
- Microsoft Office Specialist Certification

CULINARY ARTS
- ServSafe Food Manager Certification

DIGITAL MEDIA
- Adobe Certification

ENGINEERING
- Autodesk Inventor User Certification
- OSHA 10

HEALTH SCIENCE
- Emergency Medical Responder Certification
- EKG Certification
- Patient Care Technician Certification

ROBOTICS
- FANUC Certification
- OSHA 10
- Siemens Level One Certification

CAREER & TECHNICAL STUDENT ORGANIZATIONS

All students in career and technical programs have an opportunity to develop and extend their learnings through participation in active Career and Technical Student Organizations (CTSO). Any student enrolled in a career and technical course is eligible for membership in the career and technical student organization associated with that program.

CTSOs develop character, citizenship, technical, leadership, and teamwork skills essential for students who are preparing for the workforce and further education. They enhance students' civic awareness and provide opportunities for developing social competencies and a wholesome attitude about living and working.

In addition, Career and Technical Student Organizations can provide motivation toward the development of technical skills through the use of techniques such as competitive events, recognition events, and awards programs.

CLEVELAND CAPS NETWORK

Center for Advanced Professional Studies (CAPS) programs are nationally recognized, innovative high school programs. Students fast forward into their future and are fully immersed in a professional culture, solving real world problems, using industry standard tools and are mentored by actual employers, all while receiving high school and college credit. CAPS is an example of how business, community and public education can partner to produce personalized learning experiences that educate the workforce of tomorrow, especially in high skill, high demand jobs.

PARTNERSHIPS

CAPS community partnerships take learning to a whole new level by expanding the boundaries of learning beyond traditional and physical classrooms. Deepening connections with the local community means employment pipelines for students, stronger connections between students and community and the opportunity for them to envision a future beyond their immediate circumstances. CAPS is a program that ignites and celebrates innovation, creativity and problem solving. It's filled with awesome mentors, speakers, students and instructors who make learning engaging, fun and interactive!

Cleveland Utilities™
Your Hometown Connection

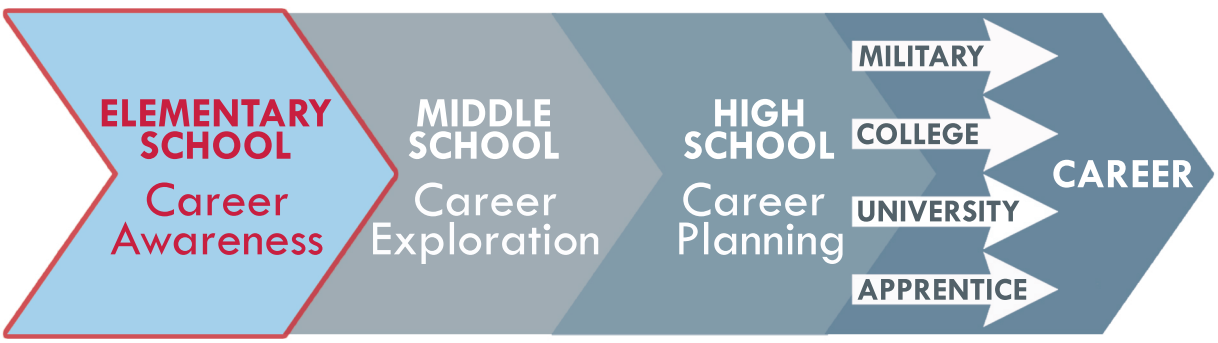
SEAL OF THE CITY CLEVELAND TENNESSEE 1842

Tennova™ Healthcare

CVS pharmacy®

ELEMENTARY SCHOOL CAREER AWARENESS

It is very important to start career exploration at an early age for students to start thinking about career development. The conversations need to happen to get students career ready so that they are able to attain educational achievements and performance levels needed to reach personal career goals. Career development gets the wheels turning in students minds so that they can start putting a plan in place for their future. At Cleveland City Schools career development starts within our technology classrooms in the fifth grade.



It is important for students to become aware of how their schooling is connected to a successful future. While in elementary school, we strive to help students:

- Discover the variety of jobs available to him or her;
- Connect what he or she is learning in school to real-world situations;
- Imagine himself or herself in an occupation;
- Develop work-readiness skills such as working and playing with others, making decisions, solving problems and being a leader.

CLEVELAND MIDDLE SCHOOL
BUSINESS COMMUNICATIONS ACADEMY

Business Communications 1 and 2 practice coding, graphic design, and video editing. Computer Applications students learn skills in Microsoft Word, PowerPoint, and Excel. They also have the unique opportunity to earn high school and college credit for this dual credit class.

In Broadcasting class, students produce a morning news show each day for the school to watch, called RaiderTV. This class not only gives students a wonderful opportunity to learn more about the broadcasting and communications industry, but it also serves our school in a very important way. Students are trained to operate this industry equipment on their own. For each show a team of students will write and read a script, run audio, create graphics, and live stream the content.

COURSE OFFERINGS

Business Communications 1
Business Communications 2
Computer Applications*
Broadcasting - RaiderTV
Career Exploration

***Dual Credit Opportunities with CHS and CSCC**

It's not often an 8th grade student can earn college credit, but for 8th grade Computer Applications students, completed work grants them three college credit hours through Cleveland State Community College.

INSTRUCTOR CONTACT

Hannah Medema
hmedema@clevelandschools.org

CLEVELAND MIDDLE SCHOOL ENGINEERING ACADEMY

Project Lead The Way (PLTW) units empower students to lead their own discovery. The hands-on program boosts classroom engagement and excitement, drives collaboration, and inspires "aha! moments" and deep comprehension. As students engage in PLTW's activities in engineering, they see possibilities they can look forward to in high school and beyond.

> "My PLTW classes are different from other classes. They focus on our thought process, and they focus on us being creative. It is a really fun class every day; I look forward to it.
>
> - PLTW Gateway Student

ENGINEERING COURSE OFFERINGS

Design and Modeling
Automation and Robotics
Science of Technology
Magic of Electrons
Career Exploration

STEM COURSE OFFERINGS

STEM 1
STEM 2

INSTRUCTOR CONTACT

Derek Morris
dmorris@clevelandschools.org

CLEVELAND MIDDLE SCHOOL MEDICAL SCIENCE ACADEMY

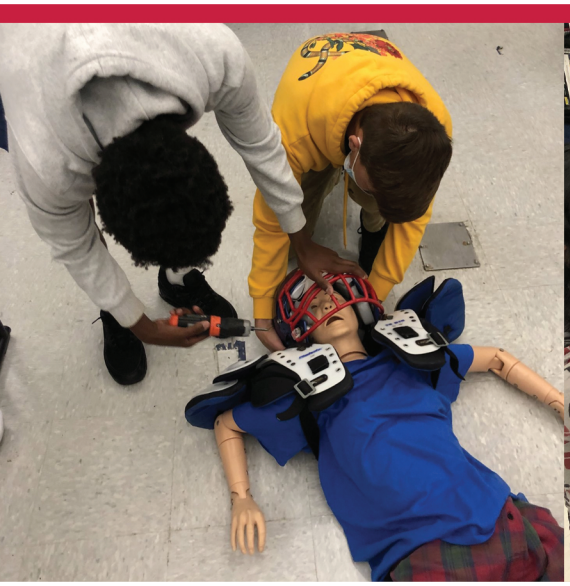
Middle School Medical Science is becoming one of the most popular new subject areas in the country. While health science is only available in post-seconday schools in most districts, Cleveland City Schools has taken the initiative to start health science education as young as sixth grade.

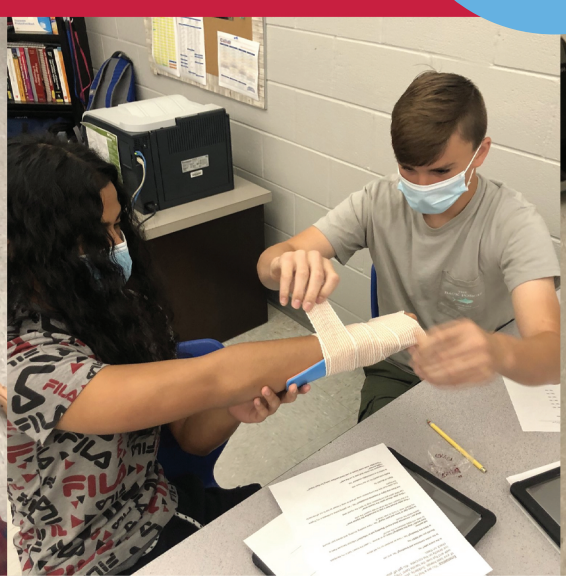
This course provides students with an exploratory introduction to several healthcare careers, safety procedures, and interpersonal communication skills required. The course will enable students to receive initial exposure to healthcare related skills, including attitudes applicable to healthcare, concepts of health, wellness, preventative care, and responsibilities of today's healthcare providers.

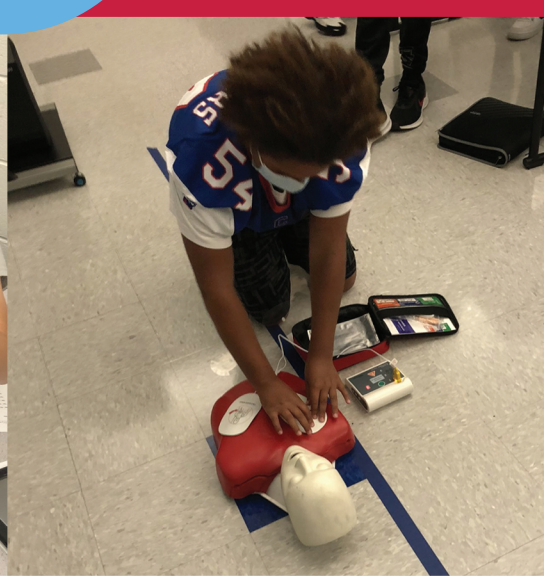
MEDICAL SCIENCE COURSE OFFERINGS

Intoduction to Health Science 6
Intoduction to Health Science 7
Intoduction to Health Science 8
Career Exploration
Health Science Education*

*Receive High School Credit







INSTRUCTOR CONTACT

Jonathan Bovee
jbovee@clevelandschools.org

CLEVELAND HIGH SCHOOL
AIR FORCE JROTC

JROTC provides numerous opportunities to grow and develop. Many of these opportunities are JROTC-sponsored and school-approved teams that normally occur outside classroom hours, before or after school. In JROTC, these programs are called Leadership Development Requirements (LDR). These events are not a mandatory requirement of enrollment, but a part of the program that cadets enjoy most.

LEADERSHIP DEVELOPMENT REQUIREMENTS (LDR)

Drill Team - A formal Group of select Cadets that join together to polish and refine the skills of military drill. The Drill Team attends local drill meets, parades, and other extra-curricular activities in order to promote esprit de corps.

Color Guard - A Group of select Cadets who present and post the Colors at formal and informal events, compete in competitions, and participate in parades. This elite Group helps to spread awareness of Cleveland High School AFJROTC on local, state, and national levels.

Raiders - Athletic competitions designed to promote teamwork and camaraderie through physical fitness and competitions. Participants are required to have a TSSAA sports physical. Raiders consists of obstacle course type events and a modified Air Force Physical Fitness Test. This is considered a fall sport for Cadets.

Marksmanship - An Olympic-style air rifle program where cadets receive training in the safe handling and marksmanship of an air rifle and compete to demonstrate these high standards.

AIR FORCE COURSE OFFERINGS

Air Force JROTC - Fall
Air Force JROTC- Spring

COMMUNITY SERVICE

Community service is a major part of the cadet experience and helps instill a sense of civic pride and citizenship. Each year, AFJROTC cadets do more than 1.6 million hours of community service. Projects range from working with national organizations like the March of Dimes, Muscular Dystrophy, the National Red Ribbon Campaign, and Special Olympics, to participating in local community projects such as cleaning and refurbishing cemeteries and building parks.

PERSONNEL AND RESOURCES

The Air Force Junior Reserve Officer Training Corps staff includes 31 Headquarters personnel and nearly 1,900 retired Air Force officers and enlisted military instructors. There are 900 Air Force Junior ROTC units with over 120,000 cadets in high schools across the United States and selected Department of Defense Dependent Schools (DoDDS) in Europe, the Pacific, Puerto Rico, and Guam. Contingent on funding, the Air Force plans to expand to 955 units by 2020. With the addition of new units, AFJROTC is expected to reach over 130,000 cadets worldwide.

DEVELOP CITIZENS OF CHARACTER DEDICATED TO SERVING THEIR NATION AND COMMUNITY

INSTRUCTOR CONTACT

Jeffery Bise
SMSgt USAF, (Ret) Aerospace Science Instructor (ASI)
jbise@clevelandschools.org

CLEVELAND HIGH SCHOOL AUTOMOTIVE ACADEMY

The Automotive Maintenance and Light Repair program of study prepares students for entry into the automotive service industry with an ASE Student Certification. Students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. We strive to help students explore opportunites in the automotive industry and prepare them for college or entering the workforce. We provide a student centered safe learning environment where hands-on training, real world employability and soft skills are taught by highly certified industry professionals. Upon completion of this program of study, students will be equipped with the knowledge and skills to be a successful automotive service technician, have satisfied course requirements to meet the National Automotive Technicians Education Foundation (NATEF) standards, and be prepared to pursue further study at a Tennessee College of Applied Technology or other postsecondary institution.

AUTOMOTIVE COURSE OFFERINGS

Automotive 1
Automotive 2
Automotive 3*
Automotive 4*
Automotive 4 WBL

*Dual Enrollment Opportunities available through TCAT-Athens

Available Industry Certifications:

OSHA 10
Snap-on: Multimeter Certification
Snap-on: Precision Measurement Instruments Certification
ASE Student Certification - Maintenance & Light Repair

IN THE CLASSROOM

Modern cars are much more evolved, with hundreds of computer chips and solid-state electronic parts. It requires specialized equipment to diagnose problems with these sophisticated electronic devices, and auto mechanics today have to learn how to use modern electronic diagnostic equipment as well as all of the traditional tools of the trade. Cleveland High School's Automotive Academy features the same state-of-the-art equipment that you find in industry automotive shops.

POTENTIAL CAREERS

Participation in Automotive can help prepare students for jobs in areas like:

- Brake Systems
- Vehicle Maintenance
- Electrical Systems
- Engine Repair
- Transmission Repair
- Auto Sales
- Suspension and Steering Repair
- Heating and Cooling Repair
- Service Management / Service Writing
- Parts Management and Sales

INSTRUCTOR CONTACT

Will Godwin
wgodwin@clevelandschools.org

CLEVELAND HIGH SCHOOL AVIATION ACADEMY

The Aviation Flight program of study prepares students to be successful in a range of aviation careers, such as pilots, aircraft engineers, air traffic control specialists, aircraft mechanics, or airline statisticians. Course content covers the knowledge and skills of all aspects of flight needed to pass the Federal Aviation Administration (FAA) Private Pilot written exam, including aircraft structures, flight environment, procedures and regulations, aerodynamics of flight, judgment training, navigation, and communications. Upon completion of this program of study, students will be prepared to take the FAA Private Pilot written exam and will be able to advance more quickly through the training hours typically required to solo in an aircraft after graduating. Dual credit or dual enrollment opportunities may be established with local postsecondary institutions.

AVIATION COURSE OFFERINGS

Aviation 1
Aviation 2*
Aviation 3
Aviation 4

*Dual Credit Opportunities available through MTSU

Available Industry Certifications:

FAA Private Pilot Written Exam
Part 107c Written Exam

IN THE CLASSROOM

Cleveland High School's Aviation classroom is equipped with 8 TD-2 trainers and a full motion flight simulator. The flight simulator allows students to engage in a way that has never been possible before. They keep students motivated to learn at unprecedented levels. Students can immediately apply the skills learned in the classroom in a safe, controlled, environment. All private pilot flight maneuvers can be practiced with step-by-step guidance, real-time corrective feedback, and post-flight evaluations. It helps students with math and science and provides a head start for those interested in aviation careers.

POTENTIAL CAREERS

Participation in Aviation can help prepare students for jobs in areas like:

- Aircraft Mechanics and Service Technicians
- Airline Pilots, Copilots, and Flight Engineers
- Air Traffic Controllers
- Avionics Technicians
- Commercial Pilots

INSTRUCTOR CONTACT

Scott Campbell
scampbell@clevelandschools.org

CLEVELAND HIGH SCHOOL
BUSINESS AND MARKETING ACADEMY

The Business Management program of study will prepare students for a career in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication. The business management and administration services industry, one of the highest paying industries, is projected to be one of the fastest growing through the year 2020. Nearly half of all jobs are in managerial and professional occupations, and nearly one-fourth of all workers are self-employed – you can be your own boss!

BUSINESS COURSE OFFERINGS

Intoduction to Business and Marketing
Business Communications*
Business Management*
Business and Entrepreneurship*
Raider Evolve*

RAIDER EVOLVE

RAIDER EVOLVE

Raider Evolve is for students interested in owning their own business, or looking to deepen their knowledge of how a business, manufacturer, or corporation operates. Raider Evolve is open to Juniors and Seniors and is a multi-operational school corporation managed and operated by students as "hands-on" learning laboratories and career opportunities that integrate different aspects of a real-world environment. For many students, Raider Evolve will provide work experience by utilizing the keys of building management, communication, supervision, entrepreneurship and leadership skills. Students will learn the basics of welding, fabrication, plasma cutting, laser etching, and will sharpen their skill in creative design, business marketing and advertising and distribution of merchandise.

IN THE CLASSROOM

The Business Academy at Cleveland High School offers many ways for students to explore their creativity as well as use different technology devices. Business courses can help in building a sense of accountability, leadership and teamwork as students learn more about how businesses operate. The business classroom features industry standard business and marketing software, high quality poster printers, embroidery machines, vinyl cutters, t-shirt printers, and much more.

POTENTIAL CAREERS

Participation in Business can help prepare students for jobs in the following areas:

- General and Operations Manager
- Management Analyst
- Business Operations Specialists
- Brand Management
- Entrepreneurship / Small Business
- Event Planning & Hospitality
- Human Resources
- Financial Advisor
- Public Relations
- Marketing and Branding

INSTRUCTOR CONTACT

Anne Person
aperson@clevelandschools.org

CLEVELAND HIGH SCHOOL COSMETOLOGY ACADEMY

Cosmetology is designed to prepare students for careers in cosmetology by developing an understanding of efficient and safe work practices, salon business concepts and operations, hair techniques and chemical services, facial and skin care procedures and state board theoretical practical application. Laboratory facilities and experiences simulate those found in the cosmetology industry. Students may acquire hours transferable to a postsecondary institution for completion of hourly requirements needed to sit for the Tennessee Cosmetology and Barber Examiners examination.

COSMETOLOGY COURSE OFFERINGS

Cosmetology 1*
Cosmetology 2*
Cosmetology 3*
Cosmetology 4*
Cosmetology WBL

***Dual Credit Opportunities available through TCAT Chattanooga, Alternative Beauty Institute, and Brillare Beauty Institute.**

Students in the Cosmetology program at Cleveland High School can earn hours to be eligible to take the Tennessee Board of Cosmetology Examination to attain a Tennessee Cosmetology License.

IN THE CLASSROOM

Classroom instruction and practical learning experiences are interwoven into a variety of beauty treatments, including the care and beautification of hair, complexion, and hands. The course of study includes hands-on and classroom instruction in all areas of styling, cutting, chemical services, nail care, makeup, and all safety/sanitary guidelines enforced by the state board.

POTENTIAL CAREERS

Participation in Cosmetology can help prepare students for jobs in the following areas:

- Hairstylist
- Nail technician
- Salon or Spa Manager
- Barber
- Wedding and Event Stylist
- Esthetician
- Makeup Artist
- Beauty Consultant
- Product Representative
- Cosmetology Instructor

INSTRUCTOR CONTACT

Rebecca Davis
rdavis@clevelandschools.org

CLEVELAND HIGH SCHOOL CRIMINAL JUSTICE ACADEMY

The Criminal Justice and Correction Services program of study prepares students for a range of careers in law enforcement, crime scene analysis, forensic science, public safety, and criminal justice. Course content emphasizes procedures and laws governing the application of justice in the United States, from constitutional rights to crisis scenario management and the elements of criminal investigations. Upon completion of this program of study, students will be equipped with the knowledge and skill preparation for postsecondary or career opportunities in many law- and justice-related fields.

CRIMINAL JUSTICE COURSE OFFERINGS

Criminal Justice 1
Criminal Justice 2
Criminal Justice 3*

***Dual Credit Opportunities available through Cleveland State Community College**

IN THE CLASSROOM

Students in Criminal Justice at Cleveland High School get hands-on learning in various aspects of the criminal justice field. Within the classroom, you will find a jail cell, courtroom, and a seperate classroom for instruction. Thoughout the year, students particpate in fingerprinting, DUI testing, mock trials, and much more.

POTENTIAL CAREERS

Participation in Criminal Justice can help prepare students for jobs in areas like:

- Police Officer
- Correctional Officer
- Private Investigator
- Detective / Criminal Investigator
- Crime Prevention Specialist
- Legal Secretary
- Drug Enforcement Agent
- Homicide Detective
- Lawyer
- Judge

INSTRUCTOR CONTACT

Cheri Morgan
cmorgan@clevelandschools.org

CLEVELAND HIGH SCHOOL
CULINARY ARTS ACADEMY

Culinary Arts equips students with the foundational skills necessary to pursue careers in the culinary field as a banquet chef, caterer, executive chef, and food and beverage manager. Courses cover topics that range from kitchen safety and sanitation, history of the foodservices industry, careers, nutrition, recipe basics, proper kitchen tools and equipment, and kitchen staples, to food presentation, advanced cooking principles, bakeshop preparation skills, professionalism, and business opportunities. Upon completion of this program of study, students will have applied a full range of knowledge and skills in culinary arts and built a professional portfolio in preparation for future training at the postsecondary level.

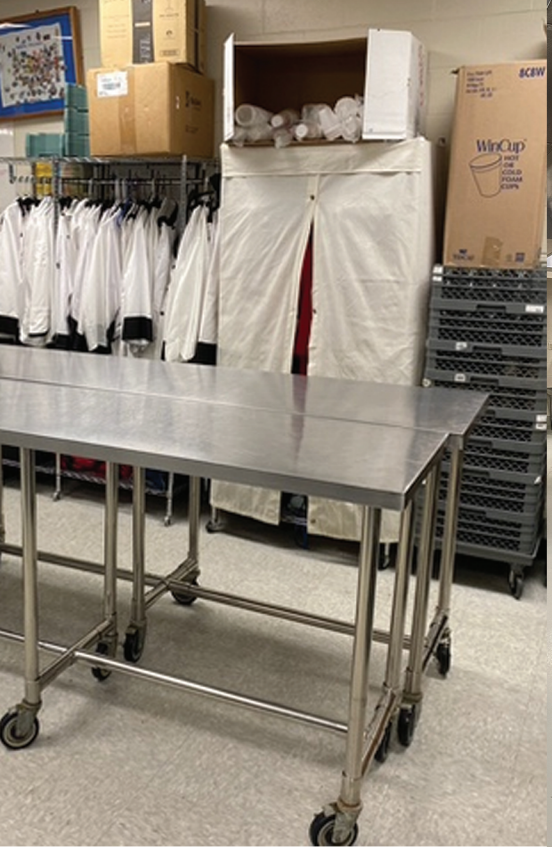
CULINARY ARTS COURSE OFFERINGS

Culinary Arts 1
Culinary Arts 2
Culinary Arts 3*
Culinary Arts 4*
Culinary Arts WBL

*Dual Credit Opportunities available through Chattanooga State Community College

Available Industry Certifications:

ServSafe Manager Certification



IN THE CLASSROOM

The Culinary Classroom features hands-on learning to make class a memorable and educational experience. These classes introduce students to a set of skills that combine both nutrition and cooking techniques. The Culinary Academy features three different learning enviroments; the kitchen, prep room, and full size dining room. Students are exposed to all aspects of the Culinary industry.

POTENTIAL CAREERS

Participation in Culinary can help prepare students for jobs in the following areas:

- Chef and Head Cook
- Food Preparation Worker
- Caterer
- Food Service or Restaurant Manager
- Baker
- Cake decorator
- Butcher
- Specialty Food Buyer
- Restaurant & Hospitality Publicist
- Food Writer

INSTRUCTOR CONTACT

Clyde Rush
crush@clevelandschools.org

CLEVELAND HIGH SCHOOL
DIGITAL MEDIA ACADEMY

The A/V Production program of study is designed for students interested in a range of entertainment and news media fields. Course content centers on production of various television, cinema, radio, and other audio and video products, including commercials, music, news, interactive programming, and film. Students complete all phases of the production process including planning, coordinating, capturing, editing, and distributing productions. Topics include but are not limited to concept creation, scripting, interviewing, budgeting, scheduling, set design, engineering, field and studio production, and editing, as well as operating production equipment such as cameras, lights, and audio equipment.

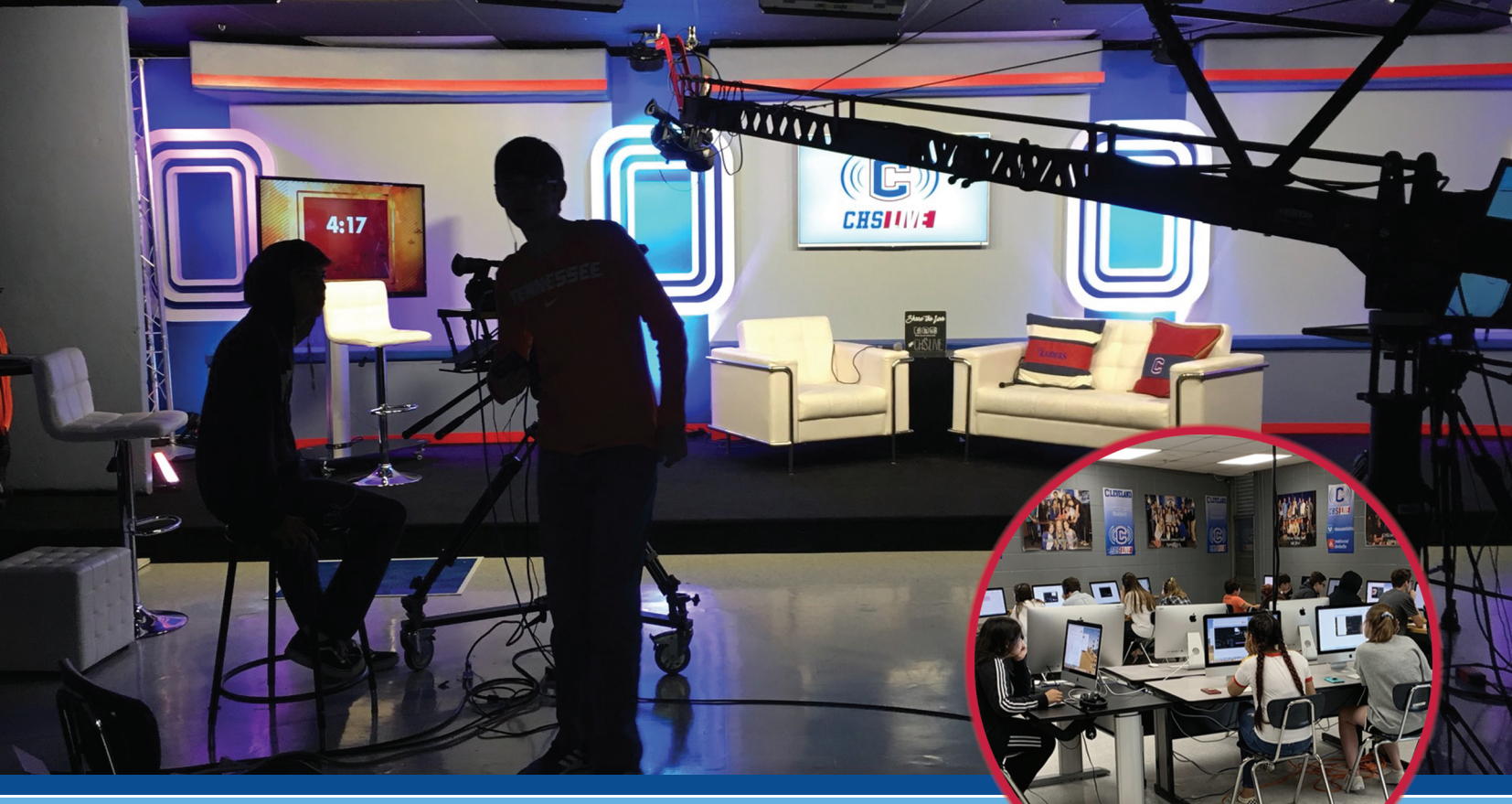
DIGITAL MEDIA COURSE OFFERINGS

Digital Media Productions 1
Digital Media Productions 2
Digital Media Productions 3*
Digital Media Productions 4
Work-Based Learning - CHSLive

***Dual Credit Opportunities available through Chattanooga State Community College**

Available Industry Certifications:

Adobe Certification



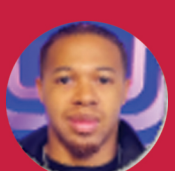
IN THE CLASSROOM

Cleveland High School's Digital Media Class features four learning enviroments; Digital Media Classroom, CHSLive Studio, CHSLive Production Room, and the CHSLive Trailer. The classroom is equipped with computers for editing video and photography. The CHSLive Studio has everything a producer needs to put on a live production, including cameras and equipment that are in industry. The CHSLive Production Room provides a space just for editing and controlling live broadcasts. When off-campus, the CHSLive Trailer is a mobile production room with a space for students to coordinate and broadcast events.

POTENTIAL CAREERS

Participation in Digital Media can help prepare students for jobs in the following areas:

- Animator
- Computer Games Developer
- Digital Media Specialist
- Film Effects Developer
- Graphic Designer
- Multimedia Consultant
- Photograher
- Website Designer
- Special Effects Director
- Communications / Public Relations



INSTRUCTOR CONTACT

Delano Halfacre
dhalfacreiii@clevelandschools.org

CLEVELAND HIGH SCHOOL ENGINEERING ACADEMY

From launching space explorations to delivering safe, clean water to communities, engineers find solutions to pressing problems and turn their ideas into reality. Project Lead The Way (PLTW) Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. The program courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students learn the in-demand course knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

Each PLTW Engineering course engages students in interdisciplinary activities like working with a client to design a home, programming electronic devices or robotic arms, or exploring algae as a biofuel source. These activities not only build knowledge and skills in engineering, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance.

ENGINEERING COURSE OFFERINGS

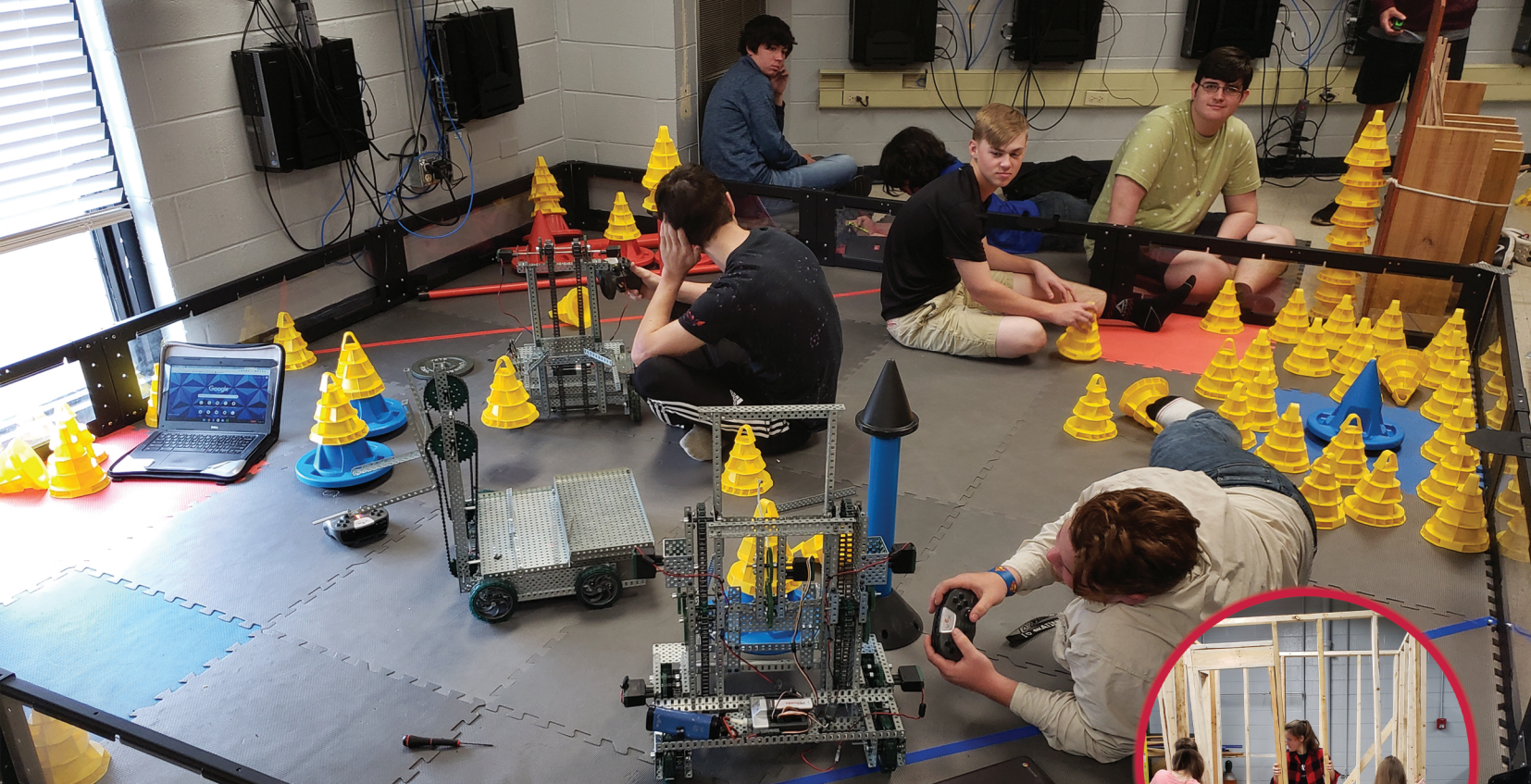
Introduction to Engineering Design*
Principles of Engineering*
Civil Engineering and Architecture*
Biomedical Engineering
Engineering Design and Development*
Work-Based Learning
School-Based Enterprise

*Dual Credit Opportunities available through Cleveland State Community College; Dual Enrollment with RIT

Available Industry Certifications:

Autodesk Inventor User Certification

OSHA 10 Certification



IN THE CLASSROOM

In the Engineering classroom, many projects are hands-on, using calipers, VEX Robotics framework, and hand tools, giving the students experience in understanding roles they may encounter in the career field. This includes building and site design using 3D CAD software. Students have opportunities to apply the content covered by using construction and surveying equipment in a lab environment.

POTENTIAL CAREERS

Participation in Engineering can help prepare students for jobs in the following areas:

- Mechanical Engineer
- Electrical Engineer
- Industrial Engineer
- Chemical Engineer
- Civil Engineer
- Big Data Engineer
- Computer Hardware Engineer
- Aerospace Engineer
- Contractor
- Biomedical Engineer

INSTRUCTOR CONTACT

David Gluckner
dgluckner@clevelandschools.org

CLEVELAND HIGH SCHOOL
HEALTH SCIENCE ACADEMY

BIOMEDICAL ENGINEERING

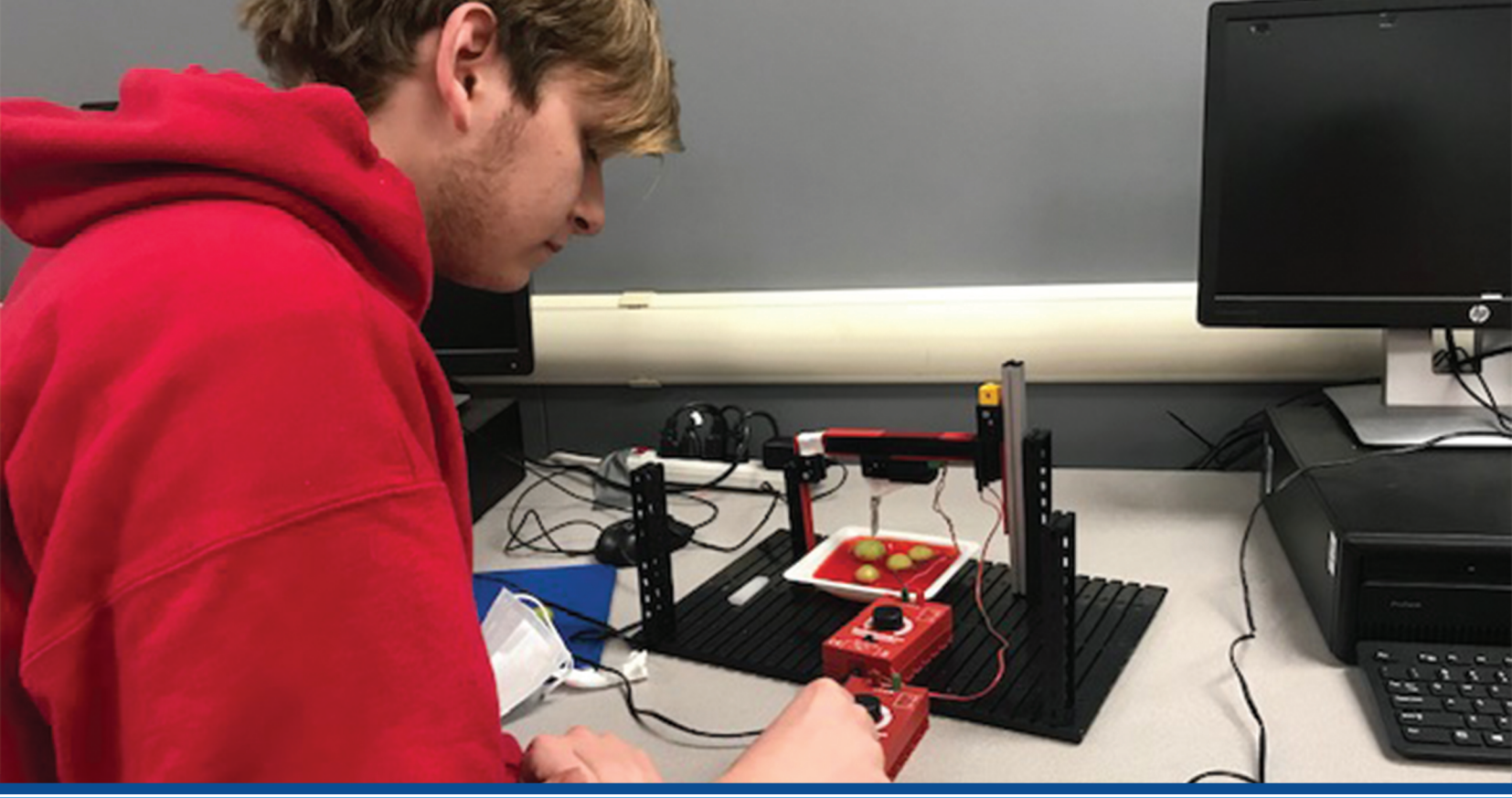
Whether discovering new cancer treatments or teaching healthy lifestyle choices to their communities, today's biomedical science professionals are tackling big challenges to make the world a better place.

Project Lead The Way (PLTW) Biomedical Science students are taking on these same real-world challenges – and they're doing it before they even graduate from high school. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. Students learn in-demand course knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

By immersing students in activities like practicing suturing and constructing body structures from clay, PLTW Biomedical Science empowers students to build knowledge and skills in biomedical science, as well as in-demand, transportable skills like problem solving, critical and creative thinking, communication, and collaboration.

BIOMEDICAL ENGINEERING COURSE OFFERINGS

Health Science
Anatomy and Physiology 1
Anatomy and Physiology 2*
Biomedical Engineering



IN THE CLASSROOM

In the Biomedical Engineering classroom, students participate in many interesting activities, incuding educational game development, bioformatics, robotic surgery, 3D printing, heart pumps, orthopedic implants, prosthetic engineering, neuroscience engineering, and genetic engineering.

POTENTIAL CAREERS

Participation in Biomedical Engineering can help prepare students for jobs in the following areas:

- Biomaterials Developer
- Genetic Engineer
- Independent Consultant
- Doctor
- Biomedical Scientist/Researcher
- Rehabilitation Engineer
- Medical Technology Developer
- Innovative Design and Development
- Hospital Equipment Selection and Support
- Biomedical Engineer

INSTRUCTOR CONTACT

Erin Hattabaugh
ehattabaugh@clevelandschools.org

CLEVELAND HIGH SCHOOL
HEALTH SCIENCE ACADEMY

DIAGNOSTIC SERVICES

Diagnostic Services is designed to prepare students to pursue careers in the fields of radiology, medical laboratory, optometry, and other patient diagnostic procedures. Upon completion of this course, proficient students will be able to describe new and evolving diagnostic technologies, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. In addition, students will have the option to complete a clinical internship.

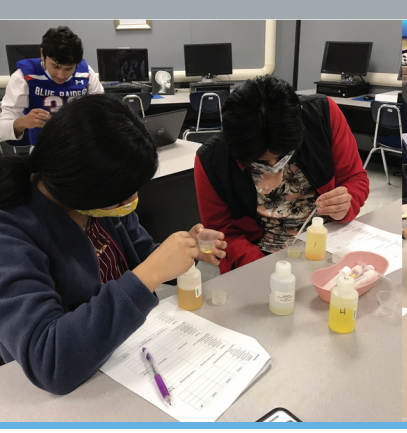
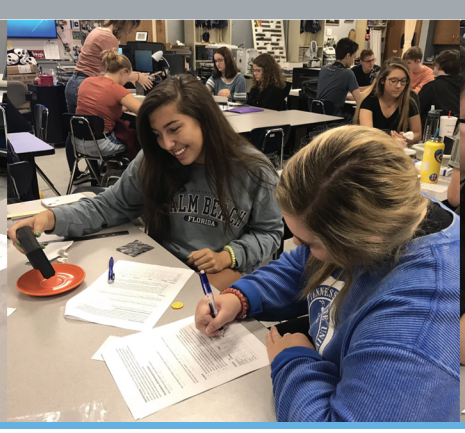
DIAGNOSTIC SERVICES COURSE OFFERINGS

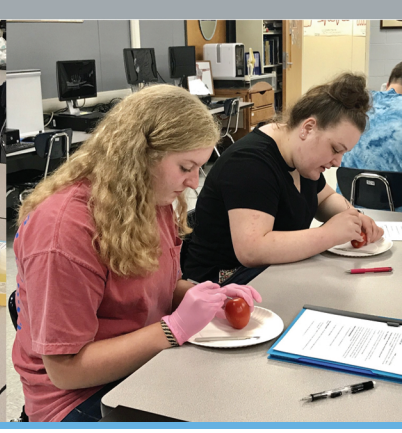
Health Science
Anatomy and Physiology 1
Anatomy and Physiology 2*
Diagnostic Medicine
Clinical Internship

*Dual Enrollment Opportunities available through Lee University

Available Industry Certifications:

Certified EKG Technician (CET)



IN THE CLASSROOM

Diagnostic Medicine is a fun, hands-on class that allows students to experience lab tests, radiology, and electrocardiograms. Students will find many learning tools that simulate equipment that you would see in the healthcare industry, such as an anatomy table, Z Space interactive 3D simulator, 3D priters, and robotics.

POTENTIAL CAREERS

Participation in Diagnostic Services can help prepare students for jobs in the following areas:

- Ophthalmic Medical Technician
- Cardiovascular Technicians
- Radiologic Technologist
- Medical and Clinical Laboratory Technologist
- Phlebotomist
- Pathologist
- Nuclear Medicine Technologist
- Diagnostic Medical Sonographer
- Diagnostic Molecular Scientist

INSTRUCTOR CONTACT

Erin Hattabaugh
ehattabaugh@clevelandschools.org

CLEVELAND HIGH SCHOOL
HEALTH SCIENCE ACADEMY

EMERGENCY MEDICAL SERVICES

The Emergency Services program of study is designed to prepare students to pursue careers in the fields of emergency medicine. Upon completion, proficient students will be able to identify careers and features of the Emergency Medical Services (EMS) system, define the importance of workforce safety and wellness, maintain legal and ethical guidelines, correlate anatomy and physiology concepts to the patient with a medical or traumatic injury, and perform EMS skills with a high level of proficiency. Students will be given the opportunity to sit for the National Emergency Medical Responder certification. Students who wish to enter the workforce will be well prepared to begin on the job training for 911 dispatching.

EMERGENCY SERVICES COURSE OFFERINGS

Health Science
Anatomy and Physiology 1
Anatomy and Physiology 2*
Medical Therapeutics
Emergency Medical Services*
Clinical Internship

*Dual Credit available with Cleveland State Community College

Available Industry Certifications:

Emergency Medical Responder Certification (EMR)

RAIDER RESCUE

IN THE CLASSROOM

EMS at Cleveland High School is full of real-life scenerios. In the EMS Lab, studnets will find a full size ambulance simulator, stretchers, and all equipment that you would see in an ambulance used in today's healthcare industry. The teacher can coach and evalute students on all EMS tasks and protocols.

POTENTIAL CAREERS

Participation in Emergency Services can help prepare students for jobs in the following areas:

- Rescue Squad Member
- Emergency Medical Technician
- Advanced EMT
- Paramedic
- Fire Department Member
- Physician Assistant
- Surgical Technologist
- Contract Medic
- Emergency Dispatcher
- Veterinary Technician

INSTRUCTOR CONTACT

Madison Williams
mwilliams@clevelandschools.org

CLEVELAND HIGH SCHOOL
HEALTH SCIENCE ACADEMY

Medical Therapeutics

Medical Therapeutics is an applied course designed to prepare students to pursue careers in therapeutic and nursing services. This course will teach students all aspects of patient care. Upon completion of this course, a proficient student will be able to identify careers in therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments.

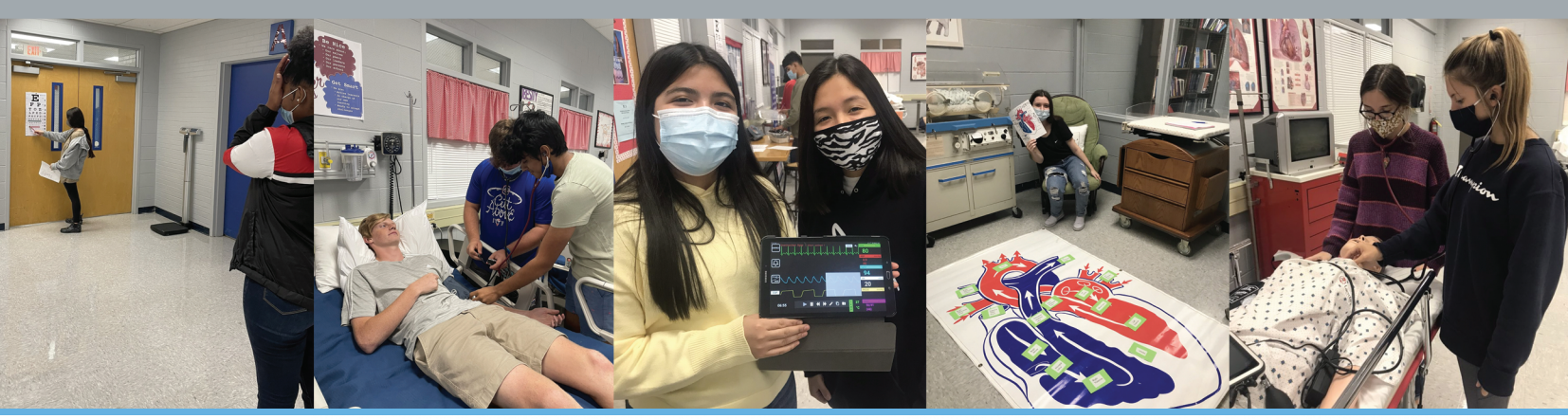
MEDICAL THERAPEUTICS COURSE OFFERINGS

Health Science
Anatomy and Physiology 1
Anatomy and Physiology 2*
Medical Therapeutics
Clinical Internship

*Dual Enrollment Opportunities available through Lee University

Available Industry Certifications:

Patient Care Technician (PCT)



IN THE CLASSROOM

Eight hospital beds, AED trainers, arm and leg sutures, vital signs monitors, airway trainer, veinfinders, and a pericardiocentesis simulators are just a few of the things students will find when entering the Medial Therapeutics classroom. Students will experience all areas of patient care in a hospital and doctor's office setting.

POTENTIAL CAREERS

Participation in Medical Therapeutics can help prepare students for jobs in the following areas:

- Ultrasound Technican
- Diagnostic Medical Sonographer
- Cardiovascular Technologists
- Cytogenetic Technologists
- Athletic Trainer
- Surgical Assistants
- Certified Nurse Assistant
- Dental Hygienist
- Registered Nurse
- Surgical Technician

INSTRUCTOR CONTACT

Kellye Huff
khuff@clevelandschools.org

CLEVELAND HIGH SCHOOL
HEALTH SCIENCE ACADEMY

Sports and Human Performance

Sports and Human Performance is designed to prepare students to pursue careers in kinesiology and exercise physiology services. Upon completion, proficient students will be able to apply concepts of anatomy and physiology, physics, chemistry, bioenergetics, and kinesiology to specific exercise science contexts. Through these connections students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. In addition, students have the opportunity to incorporate communication, goal setting, and information collection skills in their course work in preparation for future success in the workplace. Students will have the option to participate in a clinical internship at the end of the program.

SPORTS MEDICINE COURSE OFFERINGS

Health Science
Anatomy and Physiology 1
Anatomy and Physiology 2*
Medical Therapeutics
Sports Medicine and Rehabilitation
Clinical Internship

*Dual Enrollment Opportunities available through Lee University

Available Industry Certifications:

Certified Personal Trainer

IN THE CLASSROOM

Sports Medicine and Rehabilitation courses give students the opportunity to explore rehab careers, tools of the trade and learn to perform skills used in the real world of healthcare. Some of the exciting opportunities include learning how to care for injured athletes, massage therapy, and sports medicine preventative care such as athletic taping, stretching and joint mobility.

POTENTIAL CAREERS

Participation in Sports Medicine can help prepare students for jobs in the following areas:

- Exercise Physiologist
- Athletic Trainer
- Orthopedic Nurse
- Kinesiotherapist
- Physical Therapist
- Sports Psychologist
- Sports Medicine Nurse
- Recreational Therapist
- Registered Nurse
- Physician Assistant

INSTRUCTOR CONTACT

Rachel Nicholas
rnicholas@clevelandschools.org

CLEVELAND HIGH SCHOOL
HEALTH SCIENCE ACADEMY

Pharmacological Sciences

Pharmacological Sciences is a second or third-level applied course in the Therapeutic Services program of study intended to prepare students with an understanding of the roles and responsibilities of the healthcare worker in a pharmacy setting. This course equips students with the communication, goalsetting, and information-processing skills to be successful in the workplace, in addition to covering key topics in pharmacology, pharmacy law and regulations, sterile and non-sterile compounding, medication safety, quality assurance, and more. Upon completion of this course, proficient students who have also completed a Clinical Internship can apply to sit for the Pharmacy Technician Certification Board examination immediately after high school graduation.

PHARMACOLOGICAL COURSE OFFERINGS

Health Science
Anatomy and Physiology 1
Anatomy and Physiology 2*
Pharmacy
Clinical Internship

*Dual Enrollment Opportunities available through Lee University

Available Industry Certifications:

Pharmacy Tech

IN THE CLASSROOM

The Pharmacy courses at Cleveland High School goes outside the classroom and into the on-site pharmacy. Students will spend time rotating through various hands-on activities that will introduce them to a variety of roles and responsibilities of a pharmacist.

POTENTIAL CAREERS

Participation in Pharmacological Sciences can help prepare students for jobs in areas like:

- Pharmacist
- Pharmaceutical Financial Analyst
- Regulatory Specialist
- Pharmaceutical Sales Representative
- Clinical Data Manager
- Research Scientist
- Pharmacy Manager
- Drug Manufacturer
- Biotechnology Consultant
- Biostatistician

INSTRUCTOR CONTACT

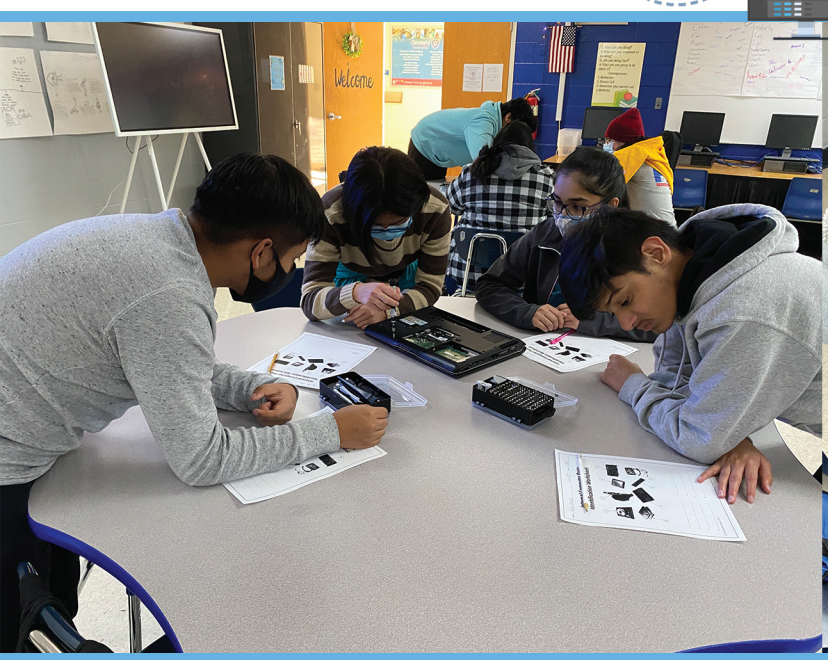
Ann Krepps
akrepps@clevelandschools.org

CLEVELAND HIGH SCHOOL
INFORMATION TECHNOLOGY ACADEMY

Information Technology careers involve the design, development, support and management of hardware, software, multimedia and systems integration services. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. In addition to careers in the IT industry, IT careers are available in every sector of the economy - from Financial Services to Medical Services, Business to Engineering and Environmental Services. Anyone preparing for an IT career should have a solid grounding in math and science.

INFORMATION TECHNOLOGY COURSE OFFERINGS

Computer Science Foundations
Cybersecurity 1
Cybersecurity 2
Web Designs Foundation
Web Site Development
Raider Evolve



IN THE CLASSROOM

Students feel right at home in Dr. Saez's I.T. classroom. These courses are very hands-on. Students are introduced to new skills and work exercises. Students are expected to develop tutorials and exercises on their own. Students are expected to do projects on both individually and in groups.

POTENTIAL CAREERS

Participation in Information Technology can help prepare students for jobs in the following areas:

- Computer Support Specialist
- Hardware Engineer
- Computer Systems Analyst
- Software Developer
- Programmer
- Web Developer
- Network Engineer
- Software Tester
- Business Analyst
- Data Scientist

INSTRUCTOR CONTACT

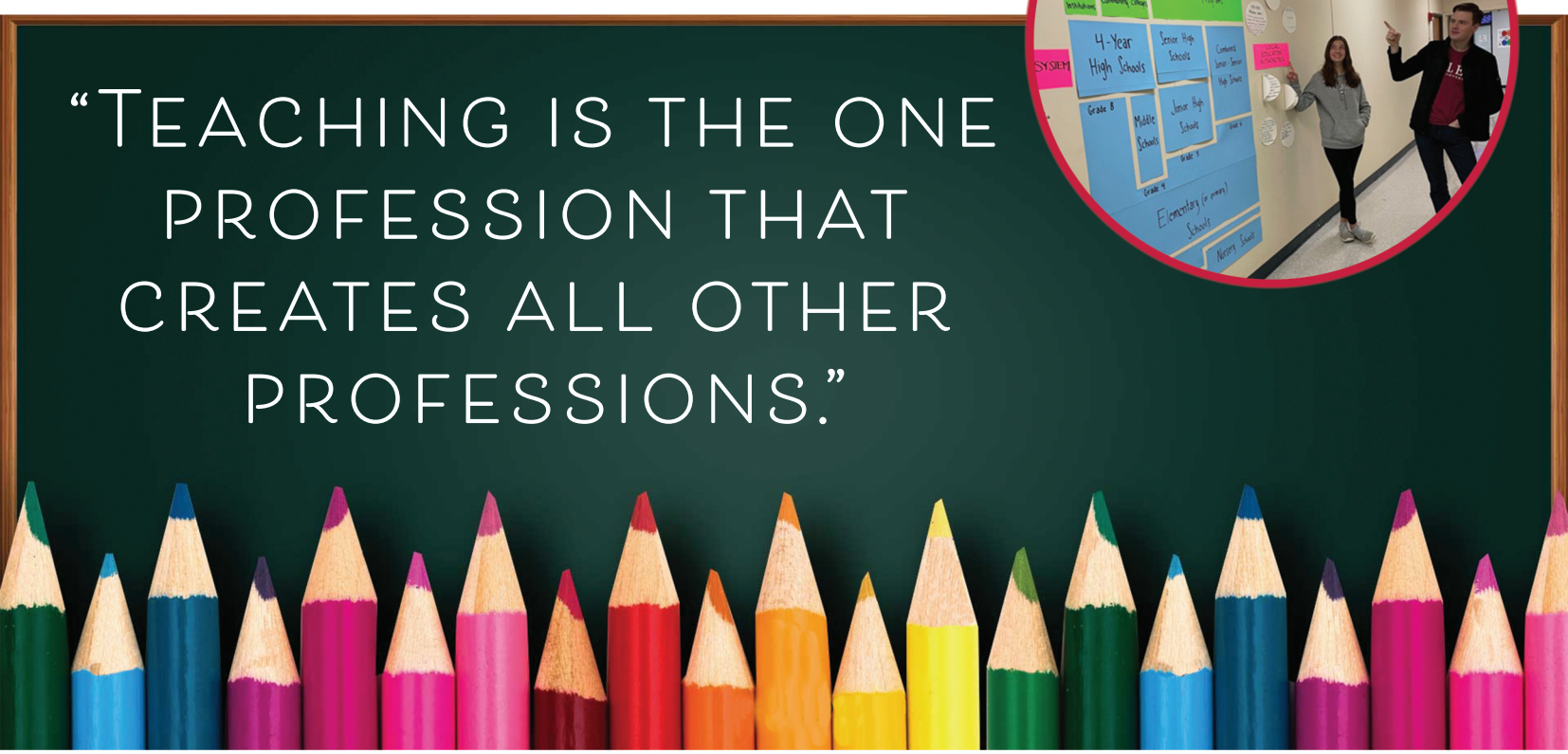
Dr. Megen Saez
msaez@clevelandschools.org

CLEVELAND HIGH SCHOOL
TEACHING AS A PROFESSION ACADEMY

Teaching as a Profession is designed for students interested in becoming an educator. In this program of study, course content covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, educational technology, classroom management, lesson planning, professionalism, and more. Upon completion of this POS, students will have participated in an internship placement and built a professional portfolio in preparation for advanced training as future educators at the postsecondary level.

TEACHING AS A PROFESSION COURSE OFFERINGS

Fundamentals of Education
Teaching as a Profession 1
Teaching as a Profession 2
Teaching as a Profession, Practicum



IN THE CLASSROOM

Students work diligently over the course of the semester on individual assignments, essays, group projects, and presentations. On a day to day basis, there is a great deal of collaboration in order to master the standards of the course. Students frequently give presentations using presentation tools, graphs, charts, data analysis, and essays. Students receive a minimum of 10 hours of teaching observations and interviews through job shadowing and interview appointments with teaching professionals.

POTENTIAL CAREERS

Participation in Teaching as a Profession can help prepare students for jobs in the following areas:

- Teacher
- Student Learning Support
- Publishing
- Corporate Learning and Development
- Human Resources
- Education Administration
- Counselor
- Postsecondary Educator
- Instructional Coordinator
- School Social Work

INSTRUCTOR CONTACT

Maggie Burns
mburns@clevelandschools.org

CLEVELAND HIGH SCHOOL ROBOTICS ACADEMY

The Mechatronics program of study is designed for students interested in becoming a mechatronics technician, electrical technician, mechanical engineering technician, robotics technician, or mechatronics engineer. Course content focuses on the components of manufacturing systems, collection and analysis of quality data, electronics, mechanics, fluid power systems, computers and control systems, and technical documentation and troubleshooting.

ROBOTICS COURSE OFFERINGS

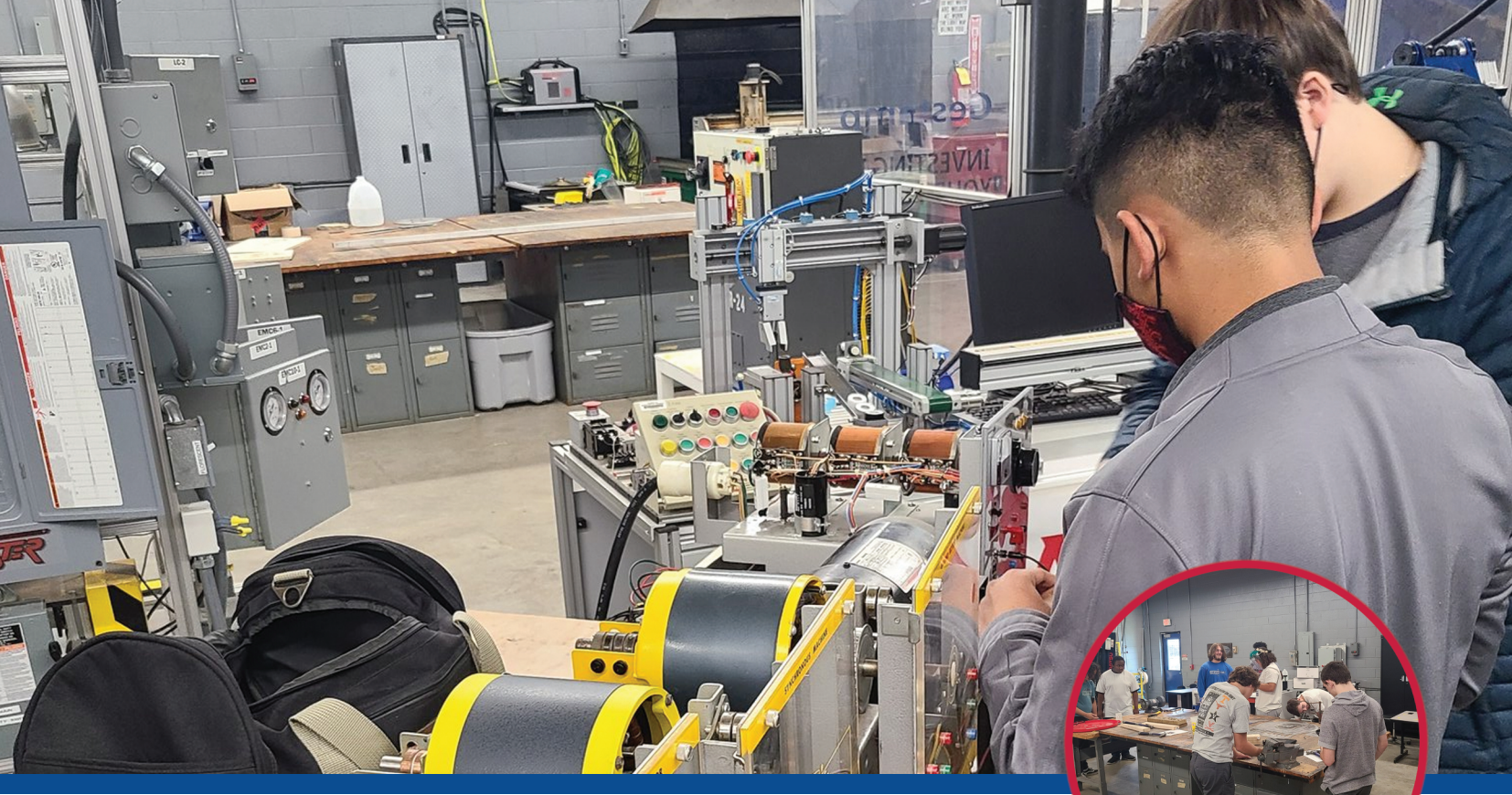
Robotics 1
Robotics 2
Robotics 3
Robotics 4
Raider Evolve
School-Based Enterprise
Work-Based Learning
Youth Apprenticeship

*Dual Credit available with Cleveland State Community College

Available Industry Certifications:

OSHA 10 Certification

Tennessee believes in the power of manufacturing. With its attractive business climate and strategic location, Tennessee is home to a strong base of manufacturers representing many diverse industries, led by the state's automotive sector, which in recent years has converted into a regional and national powerhouse. In industries such as these, employers like Alcoa, Eastman Chemical, Bridgestone, and Nissan are in need of engineers who can design, maintain, and operate complex production systems. Mechatronics, with its emphasis on applied mathematics and engineering design, offers a wealth of opportunities for career advancement in today's cutting-edge advanced manufacturing industries.



IN THE CLASSROOM

The Robotics classroom is broken into different areas including a classroom setting, welding, robotic programming, AP Laser, plasma cutter, tool rooms and more. This class is a project-based learning experience for students who wish to further explore the dynamic range of engineering fields. Students will apply their skills in Mechatronics and Computer Science to address larger and more extensive challenges within their fields.

POTENTIAL CAREERS

Participation in Robotics can help prepare students for jobs in the following areas:

- Robotics Engineer
- Design Engineer
- Software Engineer
- Hardware Engineer
- User Experience (UX) Designer
- Data Scientist
- Machine Learning Engineer
- Algorithm Engineer
- Mechanical Engineer
- Machine Builder

INSTRUCTOR CONTACT

Tim Smith
tsmith@clevelandschools.org

CLEVELAND HIGH SCHOOL WELDING ACADEMY

The Welding program of study is designed to prepare and certify students as entry-level welders. Students will learn safe practices, career exploration, leadership development, and basic arc welding and thermal cuttings skills. Basic arc welding and thermal cutting skills are developed over a series of two courses which will prepare students for an American Welding Society certification.

WELDING COURSE OFFERINGS

Welding 1
Welding 2
Raider Evolve
Work-Based Learning
Youth Apprenticeship

Available Industry Certifications:

OSHA 10 Certification

IN THE CLASSROOM

In the Welding Classroom, students are exposed to many hands-on welding activities. Throughout the courses, content covers welding basic quality principles and processes (GTAW,SMAW, GMAW), blueprints and schematics, and systems.

POTENTIAL CAREERS

Participation in Robotics can help prepare students for jobs in the following areas:

- Welder Fabricator
- Welding Metalurgy
- Welding Educator
- Welding Engineer
- Welding Supervisor
- Welding Inspector
- Welding Technician
- Underwater Welder
- Pipefitter
- Ironworker

INSTRUCTOR CONTACT

Tim Smith
tsmith@clevelandschools.org

Cleveland High School Course Offerings				
PROGRAM OF STUDY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Advanced Manufacturing				
Mechatronics Dual Credit with Cleveland State Community College; Dual Enrollment with Cleveland State Community College	Robotics I	Robotics II -or- Robotics II DE	Robotics III -or- Robotics III DE	Robotics IV -or- Robotics IV DE -or- CAPS Youth Apprenticeship -or- Raider Evolve
Welding	Robotics I	Welding I	Welding II	CAPS Youth Apprenticeship –or- Raider Evolve
Arts, A/V Technology & Communication				
Digital Media Production Industry Certification: Adobe Certification Dual Credit with Cleveland State Community College	Digital Media Production 1	Digital Media Production 2	Digital Media Production 3 DC	Digital Media Production 4 WBL (CHSLive)
Business Management & Administration				
Business Management Dual Credit with Cleveland State Community College	Introduction to Business and Marketing	Business Communications	Business Management DC	Raider Evolve WBL
Education & Training				
Teaching as a Profession (K-12)	Introduction to Teaching as a Profession	Teaching as a Profession I	Teaching as a Profession II	Teaching as a Profession Capstone
Government & Public Administration				
Leadership in Government	Air Force JROTC Fall	Air Force JROTC Spring	Air Force JROTC Fall	Air Force JROTC Spring
Health Science				
Diagnostic Services Industry Certification: EKG Certification Dual Enrollment with Lee University	Health Science Education	Diagnostic Medicine -or- Anatomy and Physiology H -or- Biomedical Engineering H	Diagnostic Medicine -or- Anatomy and Physiology H -or- Anatomy & Physiology 2 DE	Clinical Internship -or- Anatomy & Physiology 2 DE
Emergency Medical Services Industry Certification: Emergency Medical Responder Certification Dual Enrollment with Cleveland State Community College and Lee University	Health Science Education	Medical Therapeutics -or- Anatomy and Physiology H -or- Biomedical Engineering H	Medical Therapeutics -or- Anatomy and Physiology H -or- Anatomy & Physiology 2 DE -or- Emergency Medical Services DE	Anatomy and Physiology H -or- Anatomy & Physiology 2 DE -or- Emergency Medical Services DE

PROGRAM OF STUDY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Health Science Continued				
Sport and Human Performance Dual Enrollment with Lee University	Health Science Education	Sports Medicine -or- Medical Therapeutics -or- Anatomy and Physiology H -or- Biomedical Engineering H	Sports Medicine -or- Medical Therapeutics -or- Anatomy and Physiology H -or- Anatomy & Physiology 2 DE	Anatomy & Physiology 2 DE -or- Clinical Internship -or- Sports Medicine WBL
Therapeutic Services Dual Enrollment with Lee University	Health Science Education	Medical Therapeutics -or- Anatomy and Physiology H -or- Biomedical Engineering H	Pharmacy -or- Medical Therapeutics -or- Anatomy and Physiology H -or- Anatomy & Physiology 2 DE	Pharmacy II -or- CAPS CVS Internship -or- Clinical Internship -or- Anatomy & Physiology 2 DE
Hospitality & Tourism				
Culinary Arts Industry Certification: ServSafe Food Manager Certification Dual Credit with Chattanooga State Community College	Culinary Arts I	Culinary Arts II	Culinary Arts III DC	Culinary Arts IV DC -or- Culinary Arts WBL
Human Services				
Cosmetology Dual Credit with TCAT Chattanooga, Alternative Beauty Institute, or Brillare Beauty Institute Dual Enrollment with TCAT	Cosmetology I DC	Cosmetology II DC	Cosmetology III DC -or- Cosmetology III DE	Cosmetology IV DC -or- Cosmetology IV DE -or- Cosmetology WBL
Information Technology				
Cybersecurity	Computer Science Foundations	Cybersecurity I	Cybersecurity II -or- Cybersecurity II DE	Computer Science Principles AP -or- Cybersecurity II DE
Web Design	Web Design I	Web Design II	Web Design III	Web Design Capstone
Law, Public Safety, Corrections, & Security				
Criminal Justice Dual Credit with Cleveland State Community College	Criminal Justice 1	Criminal Justice 2	Criminal Justice 3 DC	

- Course Offerings Continued on Following Page -

PROGRAM OF STUDY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
		STEM		
Engineering PLTW Industry Certification: Autodesk Inventor User Certification Dual Credit with Cleveland State Community College Dual Enrollment with Rochester Institute of Technology	Introduction to Engineering Design DC	Principles of Engineering DC -or- Principles of Engineering DE	Biomedical Engineering H -or- Civil Engineering & Architecture DC -or- Civil Engineering & Architecture DE	Engineering Design & Development H -or- Engineering Design & Development WBL
		Transportation		
Automotive Maintenance and Light Repair Industry Certification: ASE Student Certification, Dual Enrollment with TCAT Athens	Automotive I	Automotive II	Automotive III -or- Automotive III DE -or- Automotive III WBL	Automotive IV -or- Automotive IV DE -or- Automotive IV WBL
Aviation Flight Dual Credit with Middle Tennessee State University	Aviation I Introduction to Aviation	Aviation II Principles of Flight	Aviation III Advanced Flight DC	

Cleveland Middle School Course Offerings

PROGRAM OF STUDY	6TH GRADE	7TH GRADE	8TH GRADE
Business Management & Administration Dual Credit with Cleveland High School & Cleveland State Community College	Business Communications I	Business Communications II	Career Exploration Computer Applications DC -or- Raider TV
STEM	Engineering Technology	STEM I	Career Exploration STEM II
Health Science	Medical Science I	Medical Science II	Career Exploration Medical Science III

When APPLIED LEARNING
is integrated with RIGOROUS ACADEMICS,
students develop the SKILLS NEEDED FOR SUCCESS.

A MESSAGE FROM THE CTE SUPERVISOR

Cleveland City Schools (CCS) Career and Technical Education (CTE) department strives to offer students rigorous and relevant career experiences while in high school. As students prepare to make career choices that will have a lasting impact on them throughout their lives, CCS CTE starts at the K-5 level through high school to make students aware of various career opportunities. One way we're able to educate students regarding career opportunities is through our Career Awareness platform. Each student in grades 6-12 are given an account where they can take a career interest survey, and a career aptitude assessment. As a result, the data gathered from the student's survey and assessments shows the student if their interest and aptitudes align. If there is an academic misalignment, the classroom teacher can take this as an opportunity to foster the student academically for them students to reach their desired career goal. Our Career exploration platform also has a plethora of information about careers, a library of career videos, job requirements, potential income, educational requirements, and the student's information is archived for up to 10 years and can be updated at any time.

Cleveland City Schools Career and Technical Education is truly "Shaping the Future."

Thank you for your support.

Sincerely,

Renny Whittenbarger

Cleveland City Schools
Career and Technical Education Supervisor

SHAPING THE FUTURE

Cleveland City Schools
Career and Technical Education

850 Raider Dr. Cleveland, TN 37312
(423) 472-8098
rwhittenbarger@clevelandschools.org

@CCSCTE

@CCSCTE