Fort Hayes Career Center





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TRANSPORTATION SYSTEMS



AUTIOMOTOVE COLLISION REPAIR

- Students will be trained in all aspects of collision repair and refinishing technology, including the use of the latest tools and equipment used to restore vehicles to preaccident condition.
- Students learn techniques to repair and replace steel, aluminum, and plastic body panels. Students also acquire welding (MIG, TIG and Oxyacetylene) and metal fabrication skills utilized in collision repair and car customization. Students receive training using the velocity laser beam frame measuring system.
- This program uses "green technology" in our paint and refinishing operations. Students learn to use the latest technology and paint spray equipment, while developing skills to repaint damaged cars, do custom painting, masking, use templates, and airbrushing techniques. Program equipment includes a downdraft spray booth and HVLP spray guns.

CERTIFICATION OPPORTUNITIES:

ASE (Automotive Service Excellence), ICAR (Inter-Industry Conference on Auto Collision Repair), NATEF (National Automotive Technicians Education Foundation), Dupont Refinish, Chief Automotive

HIGH SCHOOL CREDIT:

1st year—2 Elective, 1 Technology 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours, Owens Community College, Ohio Technical College, WyoTech, Lincoln Tech, Universal Technical Institute, Nashville Auto-Diesel College

POSSIBLE CAREER PATHS:

Collision Repair Technician, Paint and Refinish Technician, Frame and Unibody Technician, Custom Paint and Body, Shop Owner or Manager, Insurance Adjuster, Accessory Installer, Car Design, attend 2 and 4 Year College.

AUTOMOTIVE TECHNOLOGY

- This program provides a focused instruction on brakes, steering/suspension/alignment, electricity, engine performance and focuses on developing standard employability skills.
- Students analyze, diagnose, maintain, and repair basic and advanced automotive systems, utilizing state of the art diagnostic and repair equipment.
- ♦ Students in this program have the option to cross fields into diesel, marine aviation and power sports.

CERTIFICATION OPPORTUNITIES:

Prepare for ASE certification. (Requires 2 years work experience; this program counts as 1 year)

HIGH SCHOOL CREDIT:

1 Technology, 2 Elective/per year

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 15 Semester Hours Universal Technical College, Lincoln Tech, Ohio Technical College, *University of Northwestern Ohio, WyoTech, Sinclair Community College, Nashville Auto Diesel College

POSSIBLE CAREER PATHS:

Immediate employment as General Service Technician, Parts Distributor, Apprentice Technician, Specialized Technician, Master Technician, Service Writer, Service Manager, 2 year college or military.



ARCHITECTURE AND CONSTRUCTION

ART OF MASONRY

- ♦ Students learn all aspects of brick laying, block laying and concrete work as related to residential and commercial construction.
- Students learn fireplace construction according to building code requirements, as well as the aesthetic aspects utilizing brick, block and cultured stone in the architectural design.
- ♦ Students operate power tools, understand surveying principals and receive specialized equipment training for the Skid Steer Loaders and Forklifts.

CERTIFICATION OPPORTUNITIES:

National Center for Construction Education and Research (NCCER) - Core and Masonry Levels 1 and 2, OSHA 10 Hour Card, First Aid and CPR, AED, Powder Actuated Nailer, Highlift, Skid Steer Loader and Forklift.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective

2nd year—Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 5 Semester Hours

POSSIBLE CAREER PATHS:

Immediate employment, Apprenticeship, 2 and 4 year College.





BASIC CONSTRUCTION (1 year program)

- Students learn to work in Carpentry, Masonry, Plumbing, Electricity and Interior/Exterior finishes by utilizing current technology and trends in the construction industry.
- Students utilize professional shop equipment, hand and power tools.
- Students service and maintain residential and commercial mechanical systems.

CERTIFICATION OPPORTUNITIES:

National Center for Construction Education and Research (NCCER) - Core, OSHA 10 Hour Card, First Aid and CPR, AED, Highlift, Skid Steer Loader and Forklift.

HIGH SCHOOL CREDIT:

1 Technology, 2 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Immediate employment, Apprenticeship, 2 and 4 year college.

CARPENTRY

- Students work in all aspects of building construction including: estimating, framing, roofing and interior/exterior finishing.
- Students plan, manage and complete residential, commercial, and community projects.
- Students operate a wide range of power tools and professional equipment including Skid Steer Loaders and Forklifts.

CERTIFICATION OPPORTUNITIES:

National Center for Construction Education and Research (NCCER) - Core and Carpentry Levels 1 and 2, OSHA 10 Hour Card, First Aid and CPR,AED, Powder Actuated Nailer, Highlift, Skid Steer Loader and Forklift.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 14 Semester Hours

POSSIBLE CAREER PATHS:

Immediate employment, Apprenticeship, 2 and 4 year college.

ARCHITECTURE AND CONSTRUCTION

ELECTRICAL TRADES

- Students design and install residential and commercial power systems from "rough in" to "finish".
- Students learn to safely use power advanced controls while utilizing specialized tools and equipment.
- ♦ Students work with professional electricians on residential, commercial and community projects.

CERTIFICATION OPPORTUNITIES:

National Center for Construction Education and Research (NCCER) - Core and Electric Levels 1 and 2, OSHA 10 Hour Card, First Aid and CPR, AED, Powder Actuated Nailer, Highlift, Skid Steer Loader and Forklift.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Immediate employment, Apprenticeship, 2 and 4 year college.

HEATING/VENTILATION AND AIR CONDITIONING (HVAC)

- Students learn all aspects of heating and cooling unit installation, maintenance and repair of residential and commercial systems.
- Students service refrigeration systems.
- Students learn to install and maintain adequate indoor air quality and comfort control systems.

CERTIFICATION OPPORTUNITIES:

National Center for Construction Education and Research (NCCER) - Core and HVAC Levels 1, H.V.A.C. Excellence, OSHA 10 Hour Card, First Aid and CPR, EPA Government Certification, Forklift, Skid Steer Loader

HIGH SCHOOL CREDIT:

1 Technology, 2 Elective/per year

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 11 Semester Hours University of Northwestern Ohio: up to 22 Semester Hours Ferris State University: up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Immediate employment, Apprenticeship, 2 and 4 year college.

WEI DING

- Students learn the different types of welding and their proper applications including: Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (MIG), Tungsten Inert Gas Welding (FCAW) and Oxy-Fuel Welding.
- Students learn metal fabrication processes through the use of Plasma Cutting and Air Carbon Arc Gouging and Brazing.
- Students interpret blueprints to meet critical design specifications.

CERTIFICATION OPPORTUNITIES:

National Center for Construction Education and Research (NCCER) - Core and Welding Levels 1 and 2, D1.5 Welding Certification, OSHA 10 Hour Card, First Aid and CPR, and Forklift.

HIGH SCHOOL CREDIT:

1st year— 1 Technology, 2 Elective 2nd year— 3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours
Ohio Technical College: Up to 3 Semester Hours
Zane State University: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Immediate employment, Apprenticeship, 2 and 4 year college. Jobs can include: Welding Engineer, Certified Welding Inspector, Shop Forman / Supervisor, Teacher/Instructor, Iron Worker, Sheet Metal Worker, Pipe Fitter, Salesperson.



ARCHITECTURE AND CONSTRUCTION

LANDSCAPE AND INTERIOR GREENSCAPE DESIGN

- ◆ Students receive an advanced Ohio Core Science course credit for Natural Resource and Environmental Science incorporated within the program.
- Classroom instruction in this course covers plant identification and growth, landscape and hardscape material installation, and Computer Assisted Landscape Design.
- Students operate a wide range of professional landscape equipment including zero turn and walk-behind mowers.

CERTIFICATION OPPORTUNITIES:

500 Hour ONLA Certification Eligibility (Core, Master Technician, Landscape Technician, Retail Nursery - Garden Center and Grower) CPR, First Aid, Forklift

HIGH SCHOOL CREDIT:

1st year—1 Advanced Science, 1 Technology, 1 Elective 2nd year—1 Technology, 2 Electives

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

Clark State Community College: up to 10 Semester Hours

POSSIBLE CAREER PATHS:

Immediate employment, Apprenticeship, 2 and 4 year college.



BIOSCIENCE TECHNOLOGY

BIOSCIENCE TECHNOLOGY

- Students use living organisms and technology to solve problems related to crime (forensics), health, the environment, and feeding the world.
- ◆ The curriculum of this course focuses on the development of lab and research skills like micro pipetting, pouring and inoculating agar plates, making solutions, using aseptic technique, etc. Students will study microbiology and advanced genetics. They will use lab equipment like autoclaves, thermal cyclers and gel electrophoresis chambers.
- BioScience Technology is an excellent preparation for students preparing for <u>any</u> type of a science or health related career.

CAREER -TECHNICAL STUDENT ORGANIZATION:

All students in BioScience Technology belong to the National FFA Organization. This youth club provides students with many opportunities for achievement and leadership, including public speaking, competitive skills events, and community service activities.

HIGH SCHOOL CREDIT:

1 Science/2 Elective (Technology credit is pending)/per year

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Additional education through a 2 and/or 4 year college can lead to work as a Laboratory Assistant, Clinical Research Associate, Veterinary Technician, Registered Nurse, Bioinformatics Specialist, Microbiologist, Food Scientist, Pharmacologist, Plant Pathologist and more.



HEALTH SCIENCES

HEALTH SCIENCES CORE

(1st year requirement within the Health Sciences)

The health core consists of three classes that are the foundational courses for all of the specialized health career pathways.

The classes are:

INTRODUCTION TO HEALTH SCIENCE

This course introduces the student to the history and culture of healthcare.

This course:

- covers foundational information for all careers.
- offers the opportunity for CPR and First-Aid Certification.
- allows students to earn a Technology credit for high school.
- allows students to earn an articulated credit for Columbus
 State Community College.

ANATOMY AND PHYSIOLOGY

Students engage in a study of the function and structure of the human body.

This course:

- places strong emphasis on relationship to the body and body systems.
- allows students to earn a Science credit for high school.
- is a foundational course for understanding the diagnosis and treatment of disease process.

MEDICAL TERMINOLOGY

Students engage in the study of the language of health care.

This course:

- places a strong focus on the Latin and Greek root and the compound words used in healthcare, to understand the language used in the work place in the healthcare industry.
- allows students to earn an elective credit for high school.
- allows students to earn an articulated credit for Columbus State Community College.

Successful students in the healthcare pathway demonstrate a positive attitude, good attendance, the ability to follow directions, and a solid academic foundation in math and science.

DENTAL ASSISTING

- Students in this course acquire the necessary skills to work as a dental health professional, providing clinical and clerical assistance to the dentist directly related to patient care.
- Students learn to take and process x-rays, impressions, fluoride treatments and other procedures.
- Students learn and maintain infection control standards, operates dental equipment and direct patient care.

CERTIFICATION OPPORTUNITIES:

Basic Dental Assistant, Dental Radiographer Assistant, OH Certified Dental Assistant

HIGH SCHOOL CREDIT:

1st year—1 Science, 1 Technology, 1 Elective 2nd year—3 Electives

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Future Expanded Functions Dental Auxiliary, Future Dental Hygienist, Future Dentist/Specialist, Future Dental Professional Instructor through completion of 2 and 4 year college.

FITNESS AND WELLNESS

- Students will have a foundational understanding of the exercise sciences, the personal training profession and other aspects of fitness industry.
- Students will participate in daily exercises which will provide a practical experience in the health assessment, exercise movement and fitness management areas.
- Students will study nutrition through food journaling, gaining an understanding for the importance of nutrition in regards to overall health.

CERTIFICATION OPPORTUNITIES:

18 years of age and a High School Graduate, Fitness Instructor and Personal Trainer Certification.

HIGH SCHOOL CREDIT:

1st year— 1 Science, 1 Technology. 1 Elective 2nd year—3 Elective Credits

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 6 Semester Hours

POSSIBLE CAREER PATHS:

Exercise Specialist, Personal Trainer, Sports Medicine, Physical Therapy

HEALTH SCIENCES

MEDICAL ASSISTING

- Students learn to perform injections, draw blood, complete EKG procedures.
- Determine the priority of patients' treatments based on the severity of their condition.
- Students are able to check vital signs.

CERTIFICATION OPPORTUNITIES:

Registered with ARMA (American Registry of Medical Assistants).

HIGH SCHOOL CREDIT:

1st year—1Science, 1 Technology, 1 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 13.5 Semester Hours

POSSIBLE CAREER PATHS:

Employment after graduation, 2 and 4 year college.







MEDICAL LABORATORY ASSISTANT PROGRAM

- Students will be instructed in basic laboratory practice, preparing them for an entry level position in a local hospital or clinic laboratory.
- Students learn skills needed to become clinical laboratory assistants and phlebotomy technicians. These skills include specimen collection via phlebotomy and capillary techniques, as well as specimen preparation for testing and basic blood testing.
- Students learn key principles of professional client care, confidentiality, and the team approach to patient care.

CERTIFICATION OPPORTUNITIES:

Eligible students may take the exam for Phlebotomy certification.

HIGH SCHOOL CREDIT:

1st year—1 Science, 1 Technology, 1 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 14.5 Semester Hours

POSSIBLE CAREER PATHS:

Phlebotomist or Medical Laboratory Assistant 2-4 years of College, Medical Laboratory Technician, Histologist, or Cytologist

Medical School or PhD. Program to become a Pathologist

HEALTH SCIENCES

PATHWAY TO SURGICAL TECHNOLOGY

- Surgical Technologists are allied health professionals who work closely with surgeons, anesthesiologists, registered nurses, and other surgical personnel.
- Students learn to deliver patient care and assume appropriate responsibilities before, during and after surgery.
- Students learn to use medical terminology and proper documentation procedures.

HIGH SCHOOL CREDIT:

1st year—1 Science, 1 Technology, 1 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 10.5 Semester Hours

POSSIBLE CAREER PATHS:

2 and 4 year post-secondary education

Level 1: Entry level practitioner

Level 2: Proficient Practitioner

Level 3: Expert Practitioner





PATHWAY TO NURSING

- Students learn basic nursing care and skills. There are classroom, lab and clinical components for this class.
- Students exiting this program are prepared to take the written and skill tests for STNA (State Tested Nursing Assistant).
- Students in this course, have the opportunity to earn credit/certification now required by many Nursing programs.

CERTIFICATION OPPORTUNITIES:

STNA (State Tested Nursing Assistant)

HIGH SCHOOL CREDIT:

1st year—1 Science, 1Technology, 1 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 10.5 Semester Hours

POSSIBLE CAREER PATHS:

Many health careers require this course (i.e. Surgical Tech, Respiratory Therapy, RN).

Health Occupations Students of America (HOSA)

A national career-technical student organization for students enrolled in health occupations programs. A goal of HOSA is to promote career opportunities in the health care industry through leadership development programs and student recognition activities.

PERFORMING ARTS

AUDIO AND DIGITAL RECORDING

- Students learn core music industry information: its structure, history, and practices.
- Students learn to record and produce music using Pro Tools 10 and Ableton Live 8.
- Students learn studio and live recording techniques.

CERTIFICATION OPPORTUNITIES:

Pro Tools Certification available through third-party vendors.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

Students have the opportunity to intern at Capital University and earn articulated college credit from Hocking College.

POSSIBLE CAREER PATHS:

Studio Recording Engineer, Music Producer.

PRE-PROFESSIONAL DANCE

- This program emphasizes ballet and modern dance techniques, choreography, dance history, accident prevention and care, and anatomy.
- This program offers several performance opportunities such as: Winter Dance Concert, Musicals, Gallery Receptions, Educable TV Shows and Outside Community Venues.

HIGH SCHOOL CREDIT:

1st year—1 Science, 2 Electives 2nd year—3 Electives

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 2 Semester Hours

POSSIBLE CAREER PATHS:

Dance Performer, Choreographer, Teacher, Dance Therapist and Dance Educator.

THEATRE ARTS

- This program is a two-year study of theatre arts and includes acting, directing, theatre management, theatre history, stage design and building, stage combat and personal management.
- Upon completion of this program, students become a part of a network with career theatre graduates throughout the world who are now working in the industry (including Broadway to LA).
- This program prepares students for college auditions and interviews to gain talent scholarships to some of the best theatre schools in the country.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 6 Semester Hours

POSSIBLE CAREER PATHS:

College and University admissions into BA or BFA programs or directly into the Entertainment Industry.





PERFORMING ARTS

FILMMAKING AND TELEVISION PRODUCTION

- Develop an understanding and practice of filmmaking fundamentals including composition, camera operation, lighting, audio and editing fundamentals.
- Implement basic broadcasting requirements including reporting, interviewing and studio production.
- ◆ Learn the basics of graphics and 3D animation and incorporate them into film projects.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Filmmaking, Television production, Reporting, Broadcasting and Visual Effects.







MUSIC PERFORMANCE

- This program emphasizes preparation for college enrollment.
- This programs instructs students in the areas of music performance, music theory, music technology, music history and skills training within the music industry.
- This program provides students with a variety of opportunities that include: school concerts, off-campus "professional" performances, ample recording studio time and special projects geared for ones' career path.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours. AP music option.

POSSIBLE CAREER PATHS:

Performance, education, sales, marketing, audio technology and production

VISUAL COMMUNICATIONS DESIGN

ART PORTFOLIO

- Students learn to analyze nonverbal communication and influences as well as communicate their thoughts and feelings through a variety of techniques.
- ♦ Students produce professional grade portfolios, which can be used for art school scholarship competition.
- ♦ Students, in this program have several opportunities to present their work throughout the year.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Art Educator, Art Historian/Curator, Environmental Designer, Fine Artist (ceramics, drawing, installation, painting, printmaking, sculpture, and fiber), Graphic Designer, illustrator, Interactive Media Specialist, Film Maker, Product Designer

GRAPHIC ARTS AND DESIGN

- Students create, design, and produce multimedia products and services.
- Students utilize Adobe Illustrator, Photoshop, Dreamweaver, Flash, InDesign and other computer applications to generate digital media.
- Students develop manipulative skills in the use of tools, printing equipment and art media.

CERTIFICATION OPPORTUNITIES:

Adobe Certified Associate

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 8 Semester Hours

POSSIBLE CAREER PATHS:

Students are qualified for immediate employment in jobs that include: Press Operator, Screen Printer, Cutter Operator, Folder Operator, bindery or press assistant. Additional opportunities exist for those students who attend 2 or 4 year college or the military.



VISUAL COMMUNICATIONS DESIGN

INTERIOR DESIGN

- Students learn to plan interior spaces of almost every type of building, including offices, airport terminals, theaters, shopping malls, hotels, hospitals and private residences.
- Student learn of all facets of interior design, including; architectural detailing, renovation, location of windows, stairways, escalators and walkways.
- Students work with different colors, textures, furniture, lighting and space that will work together to meet the needs of a building's occupants.

CERTIFICATION OPPORTUNITIES:

Getting interior design certification through the NCIDQ is necessary for getting your professional license in many states and jurisdictions. To qualify to take the NCIDQ certification exam, you must have a combination of interior design education credit hours and work experience hours.

HIGH SCHOOL CREDIT:

1st year—1 Technology, 2 Elective 2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Postsecondary education with either an Associate or Bachelor Degree is necessary .

For entry-level positions; some states require licensing for Interior Designers.





PHOTOGRAPHY

- During the first year, qualified students will build a foundation of basic black and white film processing; darkroom techniques; digital photography and entry-level Photoshop techniques; and introductory studio portraiture and product shooting.
- In the second year, students build on their foundational knowledge by exploring advanced film, studio and Photoshop assignments.
- Each student has the opportunity to develop his/her personal creative voice by building competitive portfolios and preparing for the next level of artistic and educational challenge round out the senior year.

HIGH SCHOOL CREDIT:

1st year—1 Technology,2 Elective
2nd year—3 Elective

COLLEGE PARTNERS/CREDITS EARNED:

Columbus State Community College: Up to 3 Semester Hours

POSSIBLE CAREER PATHS:

Most photo students continue on to college and many receive scholarships based on their talents.