

AG & HEAVY EQUIPMENT TECHNICIAN

CAREER PATHWAY

Bus and Truck Mechanics and Diesel Engine Specialists • First-Line Supervisors of Mechanics, Installers, and Repairers • Industrial Machinery Mechanics • Mobile Heavy Equipment Mechanics

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Hydraulics & Pneumatics*	
	Power Trains	
	Electronic & Electrical Systems	
12	Outdoor Power Technology	
	Agricultural & Environmental Systems Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- Equipment & Engine Training Council Driveline-Hydraulics Certification - **2 Points**
- Equipment & Engine Training Council Diesel Engine Certification - **2 Points**
- Equipment & Engine Training Council 4-Stroke Engine Certification - **2 Points**
- Equipment & Engine Training Council 2-Stroke Engine Certification - **2 Points**
- Forklift Operation - **2 Points**
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- CPR / First Aid - **1 Point**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

*Indicates statewide articulated credit. Please reference course descriptions for semester hours and agreement number on the postsecondary articulated credits. Additional college credit may be available through bi-lateral agreements. Please see a school counselor for details on available bi-lateral agreements.

BHCC ADULT EDUCATION	HOURS
CDL Class A Unrestricted	192
Heavy Equipment Operator	270

POTENTIAL PLACEMENT & INCOME –

*May 2025 State Occupational Employment and Wage Estimates for Ohio

Bus and Truck Mechanics and Diesel Engine Specialists	**$61,190**
Mobile Heavy Equipment Mechanics	**$66,160**
Industrial Machinery Mechanics	**$67,900**
First-Line Supervisors of Mechanics, Installers, and Repairers	**$80,750**

BUCKEYE HILLS CAREER CENTER

v20261109

AG & HEAVY EQUIPMENT TECHNICIAN PATHWAY

SUBJECT CODE **010225**

11th GRADE

COLLEGE CREDIT
CTAG CTAIE001
2 CREDIT HOURS

HYDRAULICS & PNEUMATICS

Students will learn to diagnose, repair and rebuild hydraulic systems and their components. Students will learn the physical and mechanical principles of both hydraulic and hydrostatic operating units. Topics include testing system components and properly maintaining hydraulic and hydrostatic circuits. Students will demonstrate contamination control and system cleanliness in both hydraulic and hydrostatic operating systems. Throughout the course, site and personal safety procedures and business practices are reinforced.

SUBJECT CODE **010230**

11th GRADE

POWER TRAINS

Students will learn the physical principles of power trains, the components that transfer and control power, and how power trains are designed to function. Topics include hydraulic theory, bearings and seals along with belts, chains, and gear drives included in power trains. Students will learn how to adjust and maintain transmissions along with diagnosing power take-off devices and clutches. Throughout the course, site and personal safety procedures along with business principles are emphasized.

SUBJECT CODE **010215**

11th GRADE

ELECTRONIC & ELECTRICAL SYSTEMS

Students will diagnose, test and repair the electronic and electrical components found in industrial power equipment. Students will learn the physical principles of electricity and apply this knowledge in the maintenance, diagnostics and repair of electrical and electronic systems. Students will learn the physical and mathematical principles of electronics, controllers and sensors and will learn the operation of onboard computers and programmable controllers. Site and personal safety along with business and employability skills are emphasized throughout the course.

SUBJECT CODE **010235**

12th GRADE

OUTDOOR POWER TECHNOLOGY

Students will perform technical skills needed to maintain, diagnose and repair outdoor power equipment. Students will learn the theory of power and examine the aspects of repairing various engines, drive trains, and ancillary systems that make up modern small engine powered equipment. In addition, students will develop troubleshooting skills for 2- and 4-stroke engines, electrical and fuel systems. Throughout the course, site and personal safety procedures along with business principles will be emphasized.

SUBJECT CODE **010190**

12th GRADE

AGRICULTURAL & ENVIRONMENTAL SYSTEMS CAPSTONE

Students apply Agricultural and Environmental Systems program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through partnerships, students combine classroom learning with work experience to benefit themselves and others. These can take the form of mentorship employment, cooperative education, apprenticeships and internships.

Buckeye Hills Career Center | 351 Buckeye Hills Road | Rio Grande, OH 45674 | 740.245.5334 | buckeyehills.net

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AUTO COLLISION TECHNOLOGY
CAREER PATHWAY

Counter & Rental Clerks • Parts Salesperson • Metal Workers • Plastic Workers • Automotive Glass Installers & Repairers • Automotive Body & Related Repairers • Insurance Appraisers of Auto Damage • Cost Estimators

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Collision Electrical & Mechanical Systems Collision Painting & Refinishing Collision Structural Inspection & Repair	
12	Collision Nonstructural Inspection & Repair Transportation Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- ICAR ProLevel 1 Refinishing Technician Certification - **12 Points**
- ICAR ProLevel Non-Structural Technician Certification - **12 Points**
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- CPR / First Aid - **1 Point**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME –

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Parts Salesperson	**$40,250**
Counter & Rental Clerks	**$44,840**
Metal Workers & Plastic Workers	**$46,940**
Automotive Glass Installers & Repairers	**$52,810**
Automotive Body & Related Repairers	**$56,640**
Insurance Appraisers - Auto Damage	**$70,120**
Cost Estimators	**$82,740**

BUCKEYE HILLS CAREER CENTER

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AUTO COLLISION TECHNOLOGY CAREER PATHWAY

SUBJECT CODE **177009**

11th GRADE

COLLISION ELECTRICAL & MECHANICAL SYSTEMS

Students will perform inspections and repair electrical and mechanical damage due to collision. Topics include electrical and wiring harness, suspension, braking and cooling systems repairs. Students will service supplemental restraint systems (SRS) and ensure the integrity of the systems.

SUBJECT CODE **177012**

11th GRADE

COLLISION PAINTING & REFINISHING

Students will restore and refinish vehicle exterior body and paint finish. Students will inspect and identify substrate, type of finish, surface condition, and film thickness; develop and execute a plan for refinishing using a total product system. Students will inspect, clean, and determine condition of spray guns and related equipment. Additionally, students will observe safety precautions when using hazardous materials.

SUBJECT CODE **177010**

11th GRADE

COLLISION STRUCTURAL INSPECTION & REPAIR

Students will perform automotive collision repair of full and unibody frames and attach non-structural components. Students will apply the skills and knowledge needed to measure and diagnose structural damage, create a parts list, and determine labor costs. Students will remove and replace damaged structural components. Emphasis will be given to joining and cutting aluminum, steel and other metals. Students will maintain tools and facilities while complying with personal and environmental safety practices.

SUBJECT CODE **177011**

12th GRADE

COLLISION NONSTRUCTURAL INSPECTION & REPAIR

Students will learn the skills and knowledge of automotive body panel repairs, replacements, and adjustments. Students will analyze, document and repair nonstructural collision damage. Students will remove corrosion protection, undercoating, sealer, and other protective coatings as necessary to perform repairs. Emphasis will be given to joining and cutting aluminum, steel and other metals. Students will maintain tools and facilities while complying with personal and environmental safety practices.

SUBJECT CODE **177023**

12th GRADE

TRANSPORTATION CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Transportation program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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AUTOMOTIVE SERVICE
CAREER PATHWAY

Tire Repairers & Changers • Engine & Other Machine Assemblers • Parts Salesperson • Automotive Service Technicians & Mechanics • Training & Development Specialists • First-Line Supervisors of Mechanics • Installers & Repairers • Administrative Services Managers

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Collision Electrical & Mechanical Systems Automotive Braking Systems Ground Transportation Electrical/Electronics	
12	Automotive Steering & Suspension Systems Transportation Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

Automotive Service Excellence (ASE) Student Certifications

- Automotive Maintenance & Light Repair - **4 Points**
- Automotive Brakes - **4 Points**
- Automotive Electrical/Electronics - **4 Points**
- Automotive Steering and Suspension - **4 Points**

- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- CPR / First Aid - **1 Point**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME –

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Parts Salesperson	**$40,250**
Tire Repairers & Changers	**$42,410**
Automotive Service Technician & Mechanics	**$54,590**
Engine & Other Machine Assemblers	**$68,470**
Training & Development Specialists	**$69,600**
First-Line Supervisors of Mechanics, Installers & Repairers	**$80,750**
Administrative Services Managers	**$111,480**

BUCKEYE HILLS CAREER CENTER

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AUTOMOTIVE SERVICE CAREER PATHWAY

SUBJECT CODE **177009**

11th GRADE

COLLISION ELECTRICAL & MECHANICAL SYSTEMS

Students will perform inspections and repair electrical and mechanical damage due to collision. Topics include electrical and wiring harness, suspension, braking and cooling system repairs. Students will service supplemental restraint systems (SRS) and ensure the integrity of the systems.

SUBJECT CODE **177030**

11th GRADE

AUTOMOTIVE BRAKING SYSTEMS

Students will perform inspections, troubleshoot malfunctions and service automotive brake systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. Additionally, students will disable and enable supplemental restraint systems (SRS) and replace antilock brake systems components.

SUBJECT CODE **177002**

11th GRADE

GROUND TRANSPORTATION ELECTRICAL/ELECTRONICS

Student will diagnose and repair vehicle electrical systems, including chassis electrical, charging, starting and lighting systems. Students will learn the fundamentals of direct current (DC) electronics including series, parallel, and series-parallel circuits. Students will use electronic diagnostic tools, read schematics, and use printed and electronic resources to troubleshoot electrical circuits, test components and replace defective modules.

SUBJECT CODE **177031**

12th GRADE

AUTOMOTIVE STEERING & SUSPENSION SYSTEMS

Students will perform inspections, troubleshoot malfunctions and service automotive undercarriage systems. Students will install coil and leaf springs, shock absorbers and struts, and replace wheel bearings. Students will inspect and replace automotive steering components and perform wheel alignments.

SUBJECT CODE **177023**

12th GRADE

TRANSPORTATION CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Transportation program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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COMMERCIAL CARPENTRY
CAREER PATHWAY

Carpenters Helper • Construction Laborers • Insulation Workers • Carpenters • Drywall Installers • Ceiling Tile Installers • Tapers • Construction Equipment Operators

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Construction Safety & Crew Leadership*	
	Core & Sustainable Construction	
	Fundamentals of Architecture & Construction	
12	Structural Coverings & Finishes	
	Construction Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- CITF Career Connections Level 1 - **4 Points**
- CITF Career Connections Level 2 - **4 Points**
- CITF Career Connections Level 3 - **4 Points**
- CPR / First Aid - **1 Point**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME –

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Carpenters Helpers | **$42,740**
Construction Laborers | **$58,300**
Insulation Workers | **$58,850**
Drywall & Ceiling Tile Installers | **$61,060**
Carpenters | **$62,590**
Construction Equipment Operators | **$71,830**
Tapers | **$75,540**

BUCKEYE HILLS CAREER CENTER

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COMMERCIAL CARPENTRY CAREER PATHWAY

SUBJECT CODE **178018**

11th GRADE

COLLEGE CREDIT

CTAG CTCON002

3 CREDIT HOURS

CONSTRUCTION SAFETY AND CREW LEADERSHIP

This course covers OSHA standards (30-hr OSHA) and requirements as they apply to the construction industry and crew/project management. Topics include safety and health hazards, safe practices, construction safety management, and crew management. Emphasis is on hazard identification, avoidance, control and prevention.

SUBJECT CODE **178000**

11th GRADE

CORE & SUSTAINABLE CONSTRUCTION

Students will learn principles in basic safety (10-hr OSHA), construction math, hand and power tool care and operation, blueprint reading, material handling, communication and employability skills. An emphasis will be placed on safe and green construction practices.

SUBJECT CODE **178040**

11th GRADE

FUNDAMENTALS OF ARCHITECTURE AND CONSTRUCTION

In this first course in the career field, students will be introduced to the basic principles of architecture and construction. During this course, students will read and create construction drawings and use hand tools to create basic construction projects and models. Throughout the course, students will use hands-on skills and procedures in a laboratory setting. Additionally, students will investigate career opportunities in construction and architecture related fields.

SUBJECT CODE **178004**

12th GRADE

STRUCTURAL COVERINGS AND FINISHES

This course will address applications of interior and exterior finish work. Students will identify material properties and select for appropriate application. Students will install thermal and moisture protection including roofing, siding, fascia and soffits, gutters, and louvers. Students will install drywall; trim-joinery and molding and apply wall, floor and ceiling coverings and finishes. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.

SUBJECT CODE **178029**

12th GRADE

CONSTRUCTION CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Construction programs in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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COSMETOLOGY
CAREER PATHWAY

Cashiers • Manicurists & Pedicurists • Retail Salespersons •
Hairdressers, Hairstylists & Cosmetologists • Skincare Specialists

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Hand & Foot Treatment Fundamentals & Enhancements Fundamentals of Hair Cutting & Styling Fundamentals of Chemical Services	
12	Skin Care Fundamentals & Enhancements Advanced Hair Cutting & Styling Advanced Chemical Services	

INDUSTRY CREDENTIAL OPPORTUNITIES

Ohio State Board of Cosmetology

License of Cosmetology - **12 Points**

OSHA - 10-Hour Training* - **1 Point** (College Credit - CTS001 - 1 Credit Hour)
CPR / First Aid - **1 Point**
Ohio Driver's License - **1 Point**
Lean Six Sigma Yellow Belt - **3 Points**
Lean Six Sigma Green Belt - **6 Points**
Leadership Excellence - Student - **3 Points**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME –

May 2025 State Occupational Employment and Wage Estimates for Ohio

Cashiers | **$30,160**
Retail Salespersons | **$34,580**
Manicurists & Pedicurists | **$40,680**
Hairdressers, Hairstylists & Cosmetologists | **$44,680**
Skincare Specialists | **$47,080**

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COSMETOLOGY CAREER PATHWAY

SUBJECT CODE **174145**

11th GRADE

HAND & FOOT TREATMENT FUNDAMENTALS & ENHANCEMENTS

Students will learn the knowledge and skills to perform both manicures and pedicures. They will learn how to maintain personal hygiene and infection control. Students will give plain/oil manicures, pedicures, and hand/arm & foot/leg massages. Enhanced hand and foot treatments using specialized products and techniques will be performed.

SUBJECT CODE **174125**

11th GRADE

FUNDAMENTALS OF HAIR CUTTING & STYLING

Students will learn basic shampooing, conditioning and haircutting including trimming, wet styling and thermal styling techniques when working with natural and synthetic hair. Students will also learn infection control and safety along with the science of ergonomics.

SUBJECT CODE **174135**

11th GRADE

FUNDAMENTALS OF CHEMICAL SERVICES

Students will apply basic skills, knowledge, and safety practices when giving permanent/chemical waves, curl re-forming, chemical relaxers and hair color techniques to include tinting, highlighting, bleaching, and foiling.

SUBJECT CODE **174150**

12th GRADE

SKIN CARE FUNDAMENTALS AND ENHANCEMENTS

Students will apply the principles of anatomy, skin analysis, infection control and safety to safe hair removal, skincare treatments, and facial massage. Students will use electrical and manipulative facial treatments including masks, packs, make-up techniques. Students will also learn advanced skin care treatments, targeted massage, and enhancement applications using specialized products and techniques.

SUBJECT CODE **174130**

12th GRADE

ADVANCED HAIR CUTTING & STYLING

Students will learn advanced cutting and formal styling using specialized equipment and techniques. This course offers enhanced training in current trends and razor techniques.

SUBJECT CODE **174140**

12th GRADE

ADVANCED CHEMICAL SERVICES

Students will learn advanced chemical services using specialized products and techniques. Students will do advanced coloring, dimensional coloring, corrective techniques, texturizing, and advanced chemical wave wrapping techniques.

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CRIMINAL JUSTICE
CAREER PATHWAY

Transportation Security Screeners • Bailiffs • Private Detectives & Investigators • Correctional Officers & Jailers • Police & Sheriff's Patrol Officers • Detectives & Criminal Investigators • First-Line Supervisors of Police & Detectives

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	The American Criminal Justice System*	
	Correctional System & Services*	
	Investigations & Forensics in Criminal Investigations	
12	Police Work & Practice in Public Safety*	
	Law & Public Safety Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- National Incident Management 100 - **4 Points**
- National Incident Management 200 - **1 Point**
- National Incident Management 700 - **4 Points**
- National Incident Management 800 - **1 Point**
- Bleeding Control Basics 1.0 - **1 Point**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- CPR / First Aid - **1 Point**
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME –

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

- Bailiffs | **$55,360**
- Private Detectives & Investigators | **$56,980**
- Correctional Officers & Jailers | **$58,660**
- Transportation Security Screeners | **$63,510**
- Police & Sheriff's Patrol Officers | **$76,730**
- Detectives & Criminal Investigators | **$90,600**
- First-Line Supervisors of Police & Detectives | **$99,370**

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CRIMINAL JUSTICE CAREER PATHWAY

SUBJECT CODE **170911**

11th GRADE

COLLEGE CREDIT
CTAG CTCJ001
3 CREDIT HOURS

THE AMERICAN CRIMINAL JUSTICE SYSTEM

This first course in the Criminal Justice pathway traces the history, organization, and functions of local, state, and federal law enforcement. Students will study criminal behavior and apply constitutional and criminal law to crime and punishment. Students will learn law enforcement terminology, classifications and elements of crime, and how various court systems are used to judge and punish offenders.

SUBJECT CODE **170915**

11th GRADE

COLLEGE CREDIT
CTAG CTCJ001
3 CREDIT HOURS

CORRECTIONAL SYSTEM & SERVICES

The correctional officer plays a critical role in the criminal justice system. In this course, students will learn institutional rehabilitation and community corrections strategies that prepare them for work in a correctional setting. The student will learn the role and responsibilities of a correctional officer including processing inmates, maintaining security in a correctional setting, and understanding inmate mental health needs.

SUBJECT CODE **170914**

11th GRADE

INVESTIGATIONS & FORENSICS IN CRIMINAL INVESTIGATIONS

Forensic Science uses a structured and scientific approach to the investigation of crimes including assault, abuse and neglect, domestic violence, accidental death and homicide. Students will learn the psychology of criminal behavior and apply it to investigative procedures. Students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis.

SUBJECT CODE **170913**

12th GRADE

COLLEGE CREDIT
CTAG CTCJ001
3 CREDIT HOURS

POLICE WORK & PRACTICE IN PUBLIC SAFETY

In this course, students will learn the skills necessary to prevent, detect and react to crime. Students will learn self-defense and subject control techniques, methods to conduct patrols, surveillance, and traffic procedures. Students will understand the ethical and legal responsibilities of police officers on patrol. Additionally, students will learn the operations of police and emergency telecommunication systems.

SUBJECT CODE **170346**

12th GRADE

LAW AND PUBLIC SAFETY CAPSTONE

The course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Law and Public Safety in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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CULINARY PREPARATION
CAREER PATHWAY

Fast Food Cooks • Short Order Cooks • Restaurant Cooks • Institution & Cafeteria Cooks • All Other Cooks • First-Line Supervisors of Food Preparation & Serving Workers • Chefs & Head Cooks

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Hospitality Fundamentals* Fundamentals of Food Production* Catering & Banquet Service Operations	
12	Restaurant Management* Hospitality & Tourism Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- ServSafe Workplace - **1 Point**
- ServSafe Food Handler - **1 Point**
- ServSafe Allergen - **1 Point**
- ServSafe Person in Charge - **2 Points**
- ServSafe Manager - **3 Points**
- CPR First Aid - **1 Point**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME – $

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Fast Food Cooks	**$27,860**
Short Order Cooks	**$30,280**
Restaurant Cooks	**$35,280**
Institution & Cafeteria Cooks	**$37,160**
All Other Cooks	**$40,060**
First-Line Supervisors of Food Preparation & Serving Workers	**$41,680**
Chefs & Head Cooks	**$61,220**

BUCKEYE HILLS CAREER CENTER

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CULINARY PREPARATION CAREER PATHWAY

SUBJECT CODE **330000**

11th GRADE

COLLEGE CREDIT
CTAG CTCF002
2 CREDIT HOURS

HOSPITALITY FUNDAMENTALS

This first course in the career field will introduce students to culinary arts, foodservice operations, lodging, travel and tourism. Students will obtain knowledge of customer service principles and examine the impact of cultural, historical, social and technological developments on key segments of the industry. They will also apply safety and sanitation techniques to prevent and control injuries, illnesses and diseases in the workplace. Business law, employability skills, leadership and communications will be addressed.

SUBJECT CODE **330100**

11th GRADE

COLLEGE CREDIT
CTAG CTCF005
4 CREDIT HOURS

FUNDAMENTALS OF FOOD PRODUCTION

Students will prepare food products and beverages according to standardized recipes. They will apply plating and presentation principles to deliver attractive menu items, establish food specifications and prep lists, and develop ingredient and portion control guides. Safety and sanitation, standard knife skills, and culinary math will be emphasized. Employability skills, leadership and communications will also be incorporated.

SUBJECT CODE **330025**

11th GRADE

CATERING AND BANQUET SERVICE OPERATIONS

Students will design and manage catering and banquet operations. They will recommend types of food functions and food-and-beverage services to clients, create menus for special occasions and events, and determine financial requirements. Students will hire, train, and supervise staff; manage event logistics, operations and service providers; and oversee dining room operations. Customer service; food, equipment and site safety; and high-volume food production will also be addressed.

SUBJECT CODE **330120**

12th GRADE

COLLEGE CREDIT - 3 HOURS
CTAG CTCF009
COLLEGE CREDIT - 2 HOURS*
CTAG CTCF001
*SERVSAFE MANAGER CERTIFICATE REQUIRED TO EARN CTAG

RESTAURANT MANAGEMENT

Students will apply management principles to plan, organize and direct restaurant staff toward goal achievement. They will hire, train, and supervise employees; establish processes to facilitate restaurant operations; and plan and design menus. Students will also forecast and schedule food production, establish food specifications, select vendors, calculate costs, and purchase food and nonfood products. Other topics include food science, nutritional analysis, business law and ethics, economics and marketing.

SUBJECT CODE **330130**

12th GRADE

HOSPITALITY AND TOURISM CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in the program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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CYBER SECURITY

CAREER PATHWAY

Web & Digital Interface Designers • Computer Programmers • Web Developers • Computer Systems Analysts • Information Security Analysts • Software Developers • Computer & Information Research Scientists

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Networking*	
	Fundamentals of Operating Systems	
	Cybersecurity	
12	Cyber Defense & Reinforcement*	
	Application of Artificial Intelligence	
	Information Technology Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- Certiport Information Technology Specialist Computational Thinking - **1 Point**
- Certiport Information Technology Specialist Cybersecurity - **1 Point**
- CompTIA Fundamentals - **6 Points**
- EC-Council Ethical Hacking Essentials (EHE) - **3 Points**
- EC-Council Network Defense Essentials (NDE) - **3 Points**
- EC-Council Digital Forensics Essentials (DFE)- **3 Points**
- Google IT Support Professional Certificate - **4 Points**
- Google Analytics - **3 Points**
- Google Ads - **3 Points**
- OSHA - 10-Hour Training* - **1 Point** (College Credit-CTS001-1 Credit Hour)
- CPR / First Aid - **1 Point**
- Ohio Driver's License - **1 Point**
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME –

May 2025 State Occupational Employment and Wage Estimates for Ohio

- Computer Programmers | **$93,010**
- Web & Digital Interface Designers | **$94,540**
- Computer Systems Analysts | **$108,170**
- Computer Occupations | **$107,140**
- Software Developers | **$119,860**
- Information Security Analysts | **$117,710**
- Computer & Information Research Scientists | **$126,370**
- Computer & Information Systems Managers | **$169,360**

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CYBER SECURITY CAREER PATHWAY

SUBJECT CODE **145035**

11th GRADE

COLLEGE CREDIT

CTAG CTIT002

3 CREDIT HOURS

NETWORKING

Students will install, operate, maintain, and troubleshoot a network. Students will learn to manage, configure, and troubleshoot network infrastructure and media. Students will discuss common network topologies and communication protocols.

SUBJECT CODE **145135**

11th GRADE

FUNDAMENTALS OF OPERATING SYSTEMS

Students will perform desktop client administrator duties by providing support for users in various work environments including professional offices, small businesses, work groups, departments, and/or corporate information services (IS). Students will learn to install, configure, and update commercial and open-source operating systems.

SUBJECT CODE **146005**

11th GRADE

CYBERSECURITY

Students will learn the components of cybersecurity and the role each plays in preventing, detecting and mitigating vulnerabilities and attacks. Components include the security of the network infrastructure, security of the systems, and the prevention, detection, and mitigation of common vulnerabilities and attacks. Throughout this course, students will examine and implement security safeguards for desktop, network, and application security.

SUBJECT CODE **146010**

12th GRADE

COLLEGE CREDIT

CTAG CTCYBR001

3 CREDIT HOURS

CYBER DEFENSE & REINFORCEMENT

Students will learn the process of systematic defense for information technology systems. They will apply knowledge and skills required to secure network resources including infrastructure, operating systems, data, and applications. Students will apply the knowledge of disaster recovery and business continuity.

SUBJECT CODE **145130**

12th GRADE

APPLICATION OF ARTIFICIAL INTELLIGENCE

This course will prepare students to apply artificial intelligence, machine learning, and neural networks to common workflows, processes, and problems in programming and design. Students will analyze the broader societal, technological, and ethical impacts and implications of its usage and development. Students will learn how to construct prompts and queries and how to critically analyze generated responses.

SUBJECT CODE **145015**

12th GRADE

INFORMATION TECHNOLOGY CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in their information technology program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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DENTAL ASSISTING
CAREER PATHWAY

Medical Equipment Preparer • Dental Assistant • Dental Laboratory Technician • Dental Hygienist • Dentist • Orthodontist

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Medical and Dental Office Technology Dental Technology* Dental Radiography*	
12	Oral Diagnosis and Treatment Planning Health Science Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

Ohio State Dental Board - Dental Assistant Radiographer's Certificate - CJ35 - **6 Points**
American Medical Technologists - Registered Dental Assistant (RDA) - CA37 - **6 Points**
OSHA - 10-Hour Training* - **1 Point** (College Credit - CTS001 - 1 Credit Hour)
CPR / First Aid - **1 Point**
Blood Borne Pathogens - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME – $

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Medical Equipment Preparer | **$45,540**
Dental Assistant | **$52,370**
Dental Laboratory Technician | **$53,090**
Dental Hygienist | **$89,900**
Dentist (General) | **$180,440**
Dentist (Other Specialists) | **$186,660**
Orthodontist | **$206,430**

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DENTAL ASSISTING CAREER PATHWAY

SUBJECT CODE **072155**

11th GRADE

MEDICAL AND DENTAL OFFICE TECHNOLOGY

Students will apply fundamental principles of communication, leadership, technology and management as it applies to the medical office setting. Students will demonstrate documentation and record keeping procedures set forth by national accrediting organizations.

SUBJECT CODE **072075**

11th GRADE

COLLEGE CREDIT

CTAG CTDA001

2 CREDIT HOURS

DENTAL TECHNOLOGY

Students will demonstrate knowledge and skills associated with the practice of dentistry. Topics include principles of dental procedures and comprehensive dental care; infection control in dentistry; and dental specialties including radiology and laboratory procedures. Students will perform chair-side assisting techniques including instrument sterilization, fluoride applications, dietary analysis, and assisting physician. Emphasis is given to terminology, instruments and equipment, and patient communication. Additionally, students maintain accounts and inventory, records and appointments.

SUBJECT CODE **072076**

11th GRADE

COLLEGE CREDIT

CTAG CTDA002

1 CREDIT HOURS

DENTAL RADIOGRAPHY

Students will perform procedures to expose, process, and interpret dental radiographs. Students will apply knowledge of radiation physics, infection prevention and quality control standards that are appropriate to the clinical setting. Students will apply effective communication skills for interacting with diverse patient populations and proper procedure documentation according to business and industry standards.

SUBJECT CODE **072080**

12th GRADE

ORAL DIAGNOSIS AND TREATMENT PLANNING

Students gain knowledge of head and neck anatomy with a focus on the oral cavity and teeth. They will study bone structure, cosmetic dentistry, and tooth identification and numbering systems. Students gain knowledge of chemical and physical properties of dental materials, their indications for use, and proper manipulation of the materials. Students perform radiographs, impressions, pouring, trimming, and wax bites methods and techniques. Additionally, students educate the patient on dental procedures and comprehensive dental care.

SUBJECT CODE **072105**

12th GRADE

HEALTH SCIENCE CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Health Sciences programs in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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EARLY CHILDHOOD EDUCATION
CAREER PATHWAY

Teaching Assistant • Preschool Teacher • Kindergarten Teacher • Special Education Preschool, Kindergarten & Elementary • Middle School Teacher

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Early Childhood Education Principles*	
	Health, Safety & Nutrition*	
	Infant & Toddler Education*	
12	Curriculum & Instruction for Early Childhood Education	
	Education & Training Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- Child Abuse Awareness & Prevention - **1 Point**
- Communicable Disease Training for Child Care Program - **1 Point**
- Child Development Associate Credential - **12 Points**
- CPR First Aid - **1 Point**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME – $

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Teaching Assistants *(Except Postsecondary)*	**$36,030**
Preschool Teacher *(Except Special Education)*	**$36,500**
Kindergarten Teacher *(Except Special Education)*	**$70,590**
Special Education *(Preschool)*	**$68,960**
Elementary Teacher *(Except Special Education)*	**$72,740**
Special Education *(Kindergarten & Elementary)*	**$71,630**
Middle School Teacher	**$73,280**

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EARLY CHILDHOOD EDUCATION CAREER PATHWAY

SUBJECT CODE **350205**

11th GRADE

COLLEGE CREDIT
CTAG CTECE001
3 CREDIT HOURS

EARLY CHILDHOOD EDUCATION PRINCIPLES

Students will examine the history and philosophy of early childhood education, types of early childhood programs, and the roles, rights and responsibilities of learners and stakeholders in early childhood education. Students will assess developmental appropriate practices; legal, ethical and organizational issues; and the challenge of teaching and caring for young children with diverse needs. Career planning and professionalism will also be emphasized throughout the course.

SUBJECT CODE **350230**

11th GRADE

COLLEGE CREDIT
CTAG CTECE002
2 CREDIT HOURS

HEALTH, SAFETY & NUTRITION

Students will establish and maintain a physically and emotionally safe and healthful environment for young children. They will learn skills in first aid and CPR, identify signs and symptoms of common health issues and diseases, and develop meal and snack menus appropriate for young children of different ages and stages of development. The effects of nutrients on children's growth and development will also be emphasized.

SUBJECT CODE **350210**

11th GRADE

COLLEGE CREDIT
CTAG CTECE003
3 CREDIT HOURS

INFANT & TODDLER EDUCATION

Students will create and maintain safe, healthy, responsive learning environments for infants and toddlers. They will design age-appropriate classrooms; build relationships with families, caregivers and community partners; and encourage the growth and development of young children. Throughout the course, regulations and guidelines impacting preschools and daycares will be examined.

SUBJECT CODE **350235**

12th GRADE

CURRICULUM & INSTRUCTION FOR EARLY CHILDHOOD EDUCATION

Students will develop age-appropriate learning experiences and curriculum to engage young children. They will determine curricular goals, create lesson plans, and employ observation and assessment strategies to evaluate children's growth and development. Application of foundational principles of reading, writing, speaking, and listening skills to enhance the learner's application of literacy will be emphasized.

SUBJECT CODE **350400**

12th GRADE

EDUCATION & TRAINING CAPSTONE

Students apply Education and Training program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through partnerships, students combine classroom learning with work experience to benefit themselves and others. These can take the form of mentorship employment, cooperative education, apprenticeships and internships.

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ELECTRICAL, BROADBAND & TELECOMMUNICATIONS

Telecommunications Line Installers and Repairers • Telecommunications Equipment Installers & Repairers • Electrical & Electronics Repairers • Electrical Power-Line Installers & Repairers • Electrical Engineers

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Intro to the Telecom-Power Industry & Safety Construction Electrical Systems Broadband and Fiber	
12	Telecommunications and Powerline CDL / Heavy Equipment / Job Placement	

INDUSTRY CREDENTIAL OPPORTUNITIES

- The Fiber Optic Association - Certified Premises Cabling Technician - **12 Points**
- The Fiber Optic Association - Certified Fiber Optics Technician - **12 Points**
- Ohio State Pre-Apprenticeship - **12 Points**
- CPR First Aid - **1 Point**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS
Heavy Equipment	270

POTENTIAL PLACEMENT & INCOME —

*May 2025 State Occupational Employment and Wage Estimates for Ohio

- Electrical & Electronics Repairers (Commercial & Industrial Equipment) | **$64,340**
- Telecommunications Line Installers & Repairers | **$66,310**
- Telecommunications Equipment Installers & Repairers | **$66,980**
- Electrical & Electronics Installers & Repairers (Transportation Equipment) | **$72,790**
- Electrical Power-Line Installers & Repairers | **$88,330**
- Electrical & Electronics Repairers (Powerhouse, Substation & Relay) | **$90,540**

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ELECTRICAL, BROADBAND & TELECOMMUNICATIONS

PRE-APPRENTICESHIP

11th GRADE

INTRO TO THE TELECOM-POWER INDUSTRY & SAFETY

This introductory electrical course will emphasize electrical theory, materials, and equipment. Students will explore the National Electrical Code and learn worksite safety. They will interpret schematics; construct basic circuits, use test equipment and electrical hand and power tools.

PRE-APPRENTICESHIP

11th GRADE

CONSTRUCTION ELECTRICAL SYSTEMS

This introductory electrical course will emphasize electrical theory, materials, equipment. Students will explore the National Electrical Code and learn worksite safety. They will interpret schematics; construct basic circuits, use test equipment and electrical hand and power tools.

PRE-APPRENTICESHIP

11th GRADE

BROADBAND & FIBER

This introductory course presents students with the basic skills, knowledge, and certification in preparation for a career in the broadband industry. This course will cover safe workplace practices and provide an opportunity to earn certificates in OSHA and First AID/CPR. Students will be introduced to the unique working conditions of the industry which include confined space, heights, and weather. Background skills in math, digital literacy, customer service, and computer usage will be reinforced throughout the course. Students will gain technical knowledge through hands-on activities preparing students to become a Certified Premises Cabling Technician and a Certified Fiber Optics Technician through the Fiber Optics Association.

PRE-APPRENTICESHIP

12th GRADE

TELECOMMUNICATIONS & POWERLINE

The Telecommunications and Powerline course equips students with essential skills in telecommunications and high-voltage power transmission systems. It includes hands-on training in installing, maintaining, and repairing telecommunications lines, such as fiber optic and copper cabling. Students will learn outside plant operations, fiber splicing, cable lashing, and servicing damaged lines. The course also covers high-voltage power transmission principles, focusing on building and maintaining electrical systems. Safety is emphasized, especially around high-voltage equipment. Practical skills taught include ladder safety, bucket truck operations, and pole climbing, ensuring students can effectively test and troubleshoot installed systems.

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GAME DESIGN
CAREER PATHWAY

Graphic Designers • Producers & Directors • Special Effects Artists & Animators • Web & Digital Interface Designers • Art Directors • Project Management Specialists • Computer Occupations • Software Developers

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Animation*	
	Multimedia & Image Management*	
	Video & Sound*	
12	Game Design	
	Information Technology Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- Adobe Certified Professional - Animate CC - **4 Points**
- Adobe Certified Professional - Photoshop CC - **4 Points**
- Adobe Certified Professional - Premiere Pro CC - **4 Points**
- OSHA - 10-Hour Training* - **1 Point** (College Credit-CTS001-1 Credit Hour)
- CPR / First Aid - **1 Point**
- Ohio Driver's License - **1 Point**
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME – $

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

- Graphic Designers | **$65,130**
- Producers & Directors | **$78,200**
- Special Effects Artists & Animators | **$92,130**
- Web & Digital Interface Designers | **$94,540**
- Art Directors | **$100,300**
- Project Management Specialists | **$102,210**
- Computer Occupations | **$107,140**
- Software Developers | **$119,860**

BUCKEYE HILLS CAREER CENTER

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GAME DESIGN CAREER PATHWAY

SUBJECT CODE **145115**

11th GRADE

COLLEGE CREDIT
CTAG CTIM001
3 CREDIT HOURS

ANIMATION

Students will use animation and storyboarding techniques to plan the production of an animation project. Students will design from script and storyboard actions in the preproduction planning process. Students will use commercial and opensource digital animation software to create finished animations, cartoons, and othershortmovies. They will accomplish this using animated text, character movements, voice, background sound, sound effects, camera movements, and multiple scenes.

SUBJECT CODE **145105**

11th GRADE

COLLEGE CREDIT
CTAG CTGRPH002
3 CREDIT HOURS

MULTIMEDIA & IMAGE MANAGEMENT TECHNIQUES

Students will apply principles of image creation, management procedures, and multimedia techniques as they create, revise, optimize, and export graphics for video, print, and web publishing. The course will address issues related to web-based publishing, social media, and security. Students will utilize current commercial and open-source languages, programs, and applications.

SUBJECT CODE **145110**

11th GRADE

COLLEGE CREDIT
CTAG CTIM006
3 CREDIT HOURS

VIDEO & SOUND

Students will create professional video and audio productions for distribution in traditional and new media channels. Students will plan, produce, edit, and launch media products. Students will develop scripts and storyboards, compose shots and operate cameras, capture sounds using microphone hardware, apply special effect techniques, and edit to achieve the final product. Students will be able to use animation and graphic design for video.

SUBJECT CODE **145090**

12th GRADE

GAME DESIGN

This course will prepare students to design and program games using commercial and opensource programs and applications. Students will learn industry standard programming language constructs to write programs that integrate classes, class methods, and class instances. Students will learn input method handling, animation, collision detection, game physics and basic artificial intelligence.

SUBJECT CODE **145015**

12th GRADE

INFORMATION TECHNOLOGY CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in their information technology program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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HEALTH ACADEMY

CAREER PATHWAY

Home Health Aide • Nursing Assistant • Phlebotomist • Medical Assistant • Medical Secretary & Administrative Assistant • Licensed Practical Nurse • Surgical Technologist • Health Information Technologist • Registered Nurse • Nurse Practitioners

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
11	Medical Terminology*	
	Principles of Allied Health	
12	Patient Centered Care	
	Patient Centered Care with Diagnostic (Pre-LPN)	
	Health Science Capstone (Phlebotomy & EKG)	

INDUSTRY CREDENTIAL OPPORTUNITIES

- CPR / First Aid - **1 Point**
- Certified Nursing Assistant (CNA) - **12 Points**
- National Certified Phlebotomy Technician (NCPT) - **12 Points**
- Certified EKG Technician (CET) - **3 Points**
- Ohio Driver's License - **1 Point**
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**

POSTSECONDARY OPPORTUNITIES

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BHCC ADULT EDUCATION	HOURS
Technician in Surgery	1,342
Practical Nursing	1,382

POTENTIAL PLACEMENT & INCOME – $

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Home Health Aides	$34,190
Nursing Assistants	$40,520
Phlebotomists	$42,130
Medical Assistants	$42,610
Medical Secretaries & Administrative Assistants	$44,670
Licensed Practical Nurses	$62,060
Surgical Technologists	$64,770
Health Information Technologists	$69,160
Registered Nurses	$87,730
Nurse Practitioners	$122,910

BUCKEYE HILLS CAREER CENTER

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HEALTH ACADEMY CAREER PATHWAY

SUBJECT CODE **072150**

11th GRADE

COLLEGE CREDIT - 3 HOURS

CTAG CTMT001

MEDICAL TERMINOLOGY

This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning and pronunciation. Further, students will interpret and translate medical records and documents.

SUBJECT CODE **072035**

11th GRADE

PRINCIPLES OF ALLIED HEALTH

In this, first course students will apply knowledge and clinical skills necessary to assess, plan, provide, and evaluate care to patients in varied healthcare settings. Students will apply first aid principles and techniques needed for response to choking, cardiopulmonary resuscitation, and other life-threatening emergencies. Emphasis will be placed on regulatory compliance, patient safety, pathophysiology, and medical interventions. Additionally, this course introduces psychomotor skills needed to assist individuals in meeting basic human needs.

SUBJECT CODE **142005**

11th GRADE

COLLEGE CREDIT - 3 HOURS

CTAG CTAPS001

OFFICE MANAGEMENT (MEDICAL OFFICE)

Students will apply techniques used to manage people and information in a business environment. Students will learn to build relationships with clients, employees, peers and stakeholders and to assist new employees. They will manage business records, gather and disseminate information, and preserve critical artifacts. They will also examine contracts, internal controls and compliance requirements. Business office tools and applications will be emphasized.

SUBJECT CODE **072055**

12th GRADE

PATIENT CENTERED CARE WITH DIAGNOSTIC (PRE-LPN)

In this course, students establish and implement treatment plans while providing primary nursing care. Topics include pharmacology, phlebotomy, mental health nursing and acute care nursing. Students use diagnostic techniques to develop patient health assessments. Emphasis is placed on the synthesis of information gathered through health history, observation, and the detection of deviations and variations from normal physical characteristics. In addition, students learn the legal and ethical principles needed to function within the scope of practice.

SUBJECT CODE **072050**

12th GRADE

PATIENT CENTERED CARE

Students will apply psychomotor nursing skills needed to assist individuals in meeting basic human needs. Students will implement interventions following a nursing assistant plan of care. Students will collect patient's vital signs including temperature, pulse rate, respiration rate, and blood pressure. Students will perform phlebotomy procedures with emphasis on infection prevention, universal precautions, proper patient identification, specimen acquisition, handling, and processing. Additionally, students will observe patients' physical, mental, and emotional conditions and document any change.

SUBJECT CODE **072105**

12th GRADE

HEALTH SCIENCE CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Health Sciences or Business & Administrative services programs in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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HEATING / VENTILATION / AIR CONDITIONING

HVAC CAREER PATHWAY

General Maintenance & Repair Workers • Installation, Maintenance & Repair Workers • Heating, Air Conditioning & Refrigeration Mechanics & Installers • Electricians • Plumbers, Pipefitters & Steamfitters • Electrical & Electronics Installers & Repairers, Transportation Equipment • Electrical Power-Line Installers & Repairers

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Mechanical, Electrical & Plumbing Systems Residential Electrical Systems Heating & Cooling Systems	
12	HVAC Refrigeration Construction Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- North American Technician Excellence - HVAC Support Technician - **12 Points**
- Environmental Protection Agency (EPA) Refrigerant Recovery Universal - **12 Points**
- CPR First Aid - **1 Point**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**
- Ohio Driver's License - **1 Point**

POSTSECONDARY OPPORTUNITIES

*Indicates statewide articulated credit. Please reference course descriptions for semester hours and agreement number on the postsecondary articulated credits. Additional college credit may be available through bi-lateral agreements. Please see a school counselor for details on available bi-lateral agreements.

BHCC ADULT EDUCATION	HOURS

POTENTIAL PLACEMENT & INCOME –

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

Installation, Maintenance & Repair Workers	**$50,670**
General Maintenance & Repair Workers	**$54,760**
Heating, Air Conditioning & Refrigeration Mechanics & Installers	**$66,000**
Electricians	**$68,840**
Plumbers, Pipefitters & Steamfitters	**$69,700**
Electrical & Electronics Installers & Repairers Transportation Equipment	**$72,790**
Electrical Power-Line Installers & Repairers	**$88,330**

BUCKEYE HILLS CAREER CENTER

v20261109

HEATING VENTILATION AIR CONDITIONING PATHWAY

SUBJECT CODE **178002**

11th GRADE

MECHANICAL, ELECTRICAL & PLUMBING SYSTEMS

Students learn physical principles and fundamental skills across mechanical systems in construction. Students will select materials, assemble, and test basic electrical circuits. Students will select materials and assemble simple copper and plastic plumbing applications for both supply and drains. They will perform simple maintenance of electric motors, electric fixtures, and plumbing fixtures. Students will be able to select and install basic ductwork components and learn the operation and maintenance of heating and cooling equipment.

SUBJECT CODE **178008**

11th GRADE

RESIDENTIAL ELECTRICAL SYSTEMS

This course will emphasize electrical theory, materials, equipment and general methods used in residential construction. Students will navigate the National Electrical Code, learn worksite safety and understand licensing and permitting requirements. They will interpret plans and job specifications and calculate loads and service requirements. Students will install, test and repair receptacle outlet, lighting and small appliance circuits. They will understand circuit protection concepts and install a subpanel. Specialty circuit installation will be addressed.

SUBJECT CODE **178012**

11th GRADE

HEATING & COOLING SYSTEMS

Students will apply principles of heating and cooling to the installation, troubleshooting, and maintenance of residential and commercial Heating, Ventilation, and air conditioning/Refrigeration(HVAC/R) Systems.

SUBJECT CODE **178013**

12th GRADE

HVAC REFRIGERATION

Students will install, troubleshoot, and service residential and commercial refrigeration systems. Students will learn the laws of thermodynamics, pressure and temperature relationships, the refrigeration cycle, and refrigerant management. Students will address hydronic systems, chilled water systems, package units, and cooling towers.

SUBJECT CODE **178029**

12th GRADE

CONSTRUCTION CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in Construction programs in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community]partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

Buckeye Hills Career Center | 351 Buckeye Hills Road | Rio Grande, OH 45674 | 740.245.5334 | buckeyehills.net

Career-technical education does not discriminate on the basis of race, color, national origin, sex, disability, or age for participation in any program or activity. Lack of English language proficiency will not be a barrier to admission and participation in career-technical education programs or courses.



WELDING TECHNOLOGIES
CAREER PATHWAY

Plating Machine Setters, Operators & Tenders • Metal Workers & Plastic Workers • Welding, Soldering, Blazing Machine Setters, Operators & Tenders • Heat Treating Equipment Setters, Operators & Tenders • Welders, Cutters, Solderers & Blazers • Tool Grinders, Filers & Sharpeners • Structural Metal Fabricators & Fitters • Sheet Metal Workers

	CAREER TECHNICAL COURSE NAME & SUBJECT CODE	RECOMMENDED ACADEMICS
7		
8		
9		
10		
11	Welding Technologies Shielded Metal Arc Welding Gas Metal Arc Welding	
12	Gas Tungsten Arc Welding Manufacturing Capstone	

INDUSTRY CREDENTIAL OPPORTUNITIES

- American Welding Society (AWS) Qualification GMAW Plate - **9 Points**
- American Welding Society (AWS) Qualification SMAW Plate - **9 Points**
- American Welding Society (AWS) Qualification GTAW Plate - **9 Points**
- OSHA - 10-Hour Training* - **1 Point**
  (College Credit - CTS001 - 1 Credit Hour)
- CPR First Aid - **1 Point**
- Ohio Driver's License - **1 Point**
- Lean Six Sigma Yellow Belt - **3 Points**
- Lean Six Sigma Green Belt - **6 Points**
- Leadership Excellence - Student - **3 Points**

POSTSECONDARY OPPORTUNITIES

*Indicates statewide articulated credit. Please reference course descriptions for semester hours and agreement number on the postsecondary articulated credits. Additional college credit may be available through bi-lateral agreements. Please see a school counselor for details on available bi-lateral agreements.

BHCC ADULT EDUCATION	HOURS
Welding	600

POTENTIAL PLACEMENT & INCOME – $

**May 2025 State Occupational Employment and Wage Estimates for Ohio*

- Metal Workers & Plastic Workers | **$46,940**
- Plating Machine Setters, Operators & Tenders *(Metal & Plastic)* | **$48,460**
- Welding, Soldering, Brazing Machine Setters, Operators & Tenders | **$51,130**
- Structural Metal Fabricators & Fitters | **$51,700**
- Welders, Cutters, Solderers & Blazers | **$53,370**
- Heat Treating Equipment Setters, Operators & Tenders *(Metal & Plastic)* | **$54,860**
- Tool Grinders, Filers & Sharpeners | **$60,000**
- Sheet Metal Workers | **$68,810**

v20261109

BUCKEYE HILLS CAREER CENTER

WELDING TECHNOLOGIES CAREER PATHWAY

SUBJECT CODE **176009**

11th GRADE

WELDING TECHNOLOGIES

Students will use fundamental welding principles involving shielded metal arc, oxyacetylene, gas tungsten and gas metal arc welding in the flat, horizontal and vertical positions. An emphasis is given to electrode selection, equipment setup, operating procedures, welding inspection and testing. Students will learn joint designs and layout and will be introduced to welding codes and standards. Additional topics include employability skills, and an emphasis will be given to personal safety.

SUBJECT CODE **176001**

11th GRADE

SHIELDED METAL ARC WELDING

Students will be able to use the Shielded Metal Arc Welding process (SMAW) to safely join various types of metal. They will perform multiple types of welds and joints in all positions, up to and including overhead. They will select the appropriate type of electrode and adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply quality control factors to evaluate the quality of welds.

SUBJECT CODE **176000**

11th GRADE

GAS METAL ARC WELDING

Students will use the Gas Metal Arc Welding process (GMAW) to safely join various types of metal. They will cut metals using oxy-fuel processes and perform multiple types of welds and joints in all positions, up to and including overhead. They will select the appropriate type of electrode wire and shielding gas, and they will adjust welding equipment based on the physical characteristics and metal properties. Students will apply quality control factors to evaluate weld quality.

SUBJECT CODE **176003**

12th GRADE

GAS TUNGSTEN ARC WELDING

Students will use the Gas Tungsten Arc Welding process (GTAW) to safely join various types of metal. They will perform multiple types of welds and joints in all positions, up to and including overhead. They will select the appropriate type of electrode, filler metal and shielding gas. They will be able to adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply quality control factors to evaluate weld quality.

SUBJECT CODE **176008**

12th GRADE

MANUFACTURING CAPSTONE

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in their information technology program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

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