Scioto County Career Technical Center

Pathway Sheets for 2024/2025

"Experience you can trust. Results you can measure."

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Contact Info:

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AGRICULTURE - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Green High School	**Regina Kuhn**	regina.kuhn@sciototech.org
Northwest High School	**Marcheta Ferguson**	marcheta.ferguson@sciototech.org
Portsmouth West High School	**Cecilia Sherman**	cecilia.sherman@sciototech.org
South Webster High School	**Kristen Dempsey**	kristen.dempsey@sciototech.org
Valley High School	**Richard Sherman**	richard.sherman@sciototech.org

AGRICULTURE

Program Name: Green High School Agriculture	Instructor: Regina Kuhn
Career Field: Agricultural and Environmental Systems	Career Pathway: A0 - Agribusiness and Production Systems

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
010105	Agriculture, Food, & Natural Resources *VT: 130 hours*				
010125	Animal & Plant Science *VT: 130 hours*				
010190	Agricultural & Environmental Capstone *VT: 130 hours*				*No WebXam for this course*
010610	Greenhouse & Nursery Management *VT: 130 hours*	CTAGP002	Soil Fertility & Fertilizers	3	*Statewide Articulation - CTAG*
010115	Business Management for Agricultural & Environmental Systems *VT: 130 hours*	CTAGP003	Agribusiness Management	3	*Statewide Articulation - CTAG*
011010	Science & Technology of Food *VT: 130 hours*	CTAGP003	Agribusiness Management	3	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
Ohio Agribusiness Association – Agribusiness & Production Systems	**12**	CJ95
AMSA Food Safety & Science Certification	**6**	CR14
Ohio Department of Agriculture – Private Pesticide Applicator License	**3**	CJ07
Leadership + Service	**3**	CQ07

3M: Hearing & Noise Protection	**1**	CP60
Soft Skills Pro	**1**	CR08
CPR/First Aid	**1**	CB62
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

AGRICULTURE

Program Name:	Instructor:
Northwest High School Agriculture	Marcheta Ferguson

Career Field:	Career Pathway:
Agricultural and Environmental Systems	A0 - Agribusiness and Production Systems

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
010105	Agriculture, Food, & Natural Resources *VT: 120 hours*				
010125	Animal & Plant Science *VT: 120 hours*	AGRI1107	Principles of Animal Science	4	*Dual Credit with Southern State University*
		AGRI1114	Principles of Horticulture	4	*Dual Credit with Southern State University*
010115	Business Management for Agricultural & Environmental Systems *VT: 120 hours*	AGRI1126	Agricultural Economics	3	*Dual Credit with Southern State University*
010610	Greenhouse & Nursery Management *VT: 120 hours*	AGRI1119	Greenhouse Management	4	*Dual Credit with Southern State University*
010920	Livestock Selection, Nutrition, & Management *VT: 120 hours*	AGRI1126	Livestock Feeds & Feeding	3	*Dual Credit with Southern State University*

Industry Recognized Credentials		Points Available	EMIS Code
Ohio Agribusiness Association – Agribusiness & Production Systems		**12**	CJ95
OSHA 10-hour		**1**	CJ02
Ohio Drivers License		**1**	CR63

AGRICULTURE

Program Name: Portsmouth West High School Agriculture	Instructor: Cecilia Sherman
Career Field: Agricultural and Environmental Systems	**Career Pathway:** A0 - Agribusiness and Production Systems

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
010105	Agriculture, Food, & Natural Resources *VT: 145 hours*				
010125	Animal & Plant Science *VT: 120 hours*	**AGRI1107**	Principles of Animal Science	4	*Dual Credit with Southern State University*
		AGRI1114	Principles of Horticulture	4	*Dual Credit with Southern State University*
010115	Business Management for Agricultural & Environmental Systems *VT: 145 hours*	**AGRI1126**	Agricultural Economics	3	*Dual Credit with Southern State University*
010190	Agricultural & Environmental Capstone *VT: 145 hours*				*No WebXam for this course*
010610	Greenhouse & Nursery Management *VT: 145 hours*	**AGRI1119**	Greenhouse Management	4	*Dual Credit with Southern State University*

Industry Recognized Credentials	Points Available	EMIS Code
Ohio Agribusiness Association – Agribusiness & Production Systems	**12**	CJ95
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

AGRICULTURE

Program Name:	Instructor:
South Webster High School Agriculture	Kristen Dempsey

Career Field:	Career Pathway:
Agricultural and Environmental Systems	A0 - Agribusiness and Production Systems

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
010105	Agriculture, Food, & Natural Resources *VT: 126 hours*				
010125	Animal & Plant Science *VT: 126 hours*				
010115	Business Management for Agricultural & Environmental Systems *VT: 126 hours*	CTAGP003	Agribusiness Management	3	*Statewide Articulation - CTAG*
010920	Livestock Selection, Nutrition, & Management *VT: 126 hours*	*Supposed to have a CTAG in place for 2024/2025*			

Industry Recognized Credentials	Points Available	EMIS Code
Ohio Agribusiness Association – Agribusiness & Production Systems	**12**	CJ95
Ohio Department of Agriculture - Private Pesticide Applicator License	**3**	CJ07
CPR/First Aid	**1**	CB62
OSHA 10-hour	**1**	CJ02

AGRICULTURE

Program Name: Valley High School Agriculture	Instructor: Richard Sherman
Career Field: Agricultural and Environmental Systems	Career Pathway: A0 - Agribusiness and Production Systems

Courses for 2024/2025					
CTAG credit is earned by passage of course and proficiency on WebXam. Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.					
EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
010105	Agriculture, Food, & Natural Resources *VT: 135 hours*				
010125	Animal & Plant Science *VT: 135 hours*	AGRI1107	Principles of Animal Science	4	*Dual Credit with Southern State University*
010115	Business Management for Agricultural & Environmental Systems *VT: 135 hours*	AGRI1126	Agricultural Economics	3	*Dual Credit with Southern State University*
010920	Livestock Selection, Nutrition, & Management *VT: 135 hours*				

Industry Recognized Credentials	Points Available	EMIS Code
Ohio Agribusiness Association – Agribusiness & Production Systems	**12**	CJ95
Ohio Department of Agriculture – Private Pesticide Applicator License	**3**	CJ07
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

Agriculture Courses
Offered at: Green High School, Northwest High School, Portsmouth West High School, South Webster High School, Valley High School

Agriculture, Food and Natural Resources (AFNR)

Course Code: 010105

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

WebXam Required: Yes

WebXam Testing Code: 010105

Assessment Code for Subject: AAL5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ A0: Agribusiness & Production Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ Future Farmers of America (FFA)

Agriculture Courses
Offered at: Green High School, Northwest High School, Portsmouth West High School, South Webster High School, Valley High School

Animal and Plant Science

Course Code: 010125

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School
Dual Credit at Northwest High School, Portsmouth West High School, & Valley High School

Course Description
Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

WebXam Required: Yes

WebXam Testing Code: 010125

Assessment Code for Subject: AAN5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ A0: Agribusiness & Production Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ Future Farmers of America (FFA)

Agriculture Courses
Offered at: *Green High School, Northwest High School, Portsmouth West High School, South Webster High School, Valley High School*

Business Management for Agricultural and Environmental Systems

Course Code: 010115

Curriculum Type: VT (high school)

Instructional Hours Required: VT: 120-280

Credit Available: High School, CTAG
Dual Credit *at Northwest High School, Portsmouth West High School, & Valley High School*

Course Description
Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

WebXam Required: Yes

WebXam Testing Code: 010115

Assessment Code for Subject: AAM5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ A0: Agribusiness & Production Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ Future Farmers of America (FFA)

Agriculture Courses
Offered at: Green High School, Portsmouth West High School

Agricultural and Environmental Systems Capstone

Course Code: 010190

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

WebXam Required: No

WebXam Testing Code: N/A

Assessment Code for Subject: N/A

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ A0: Agribusiness & Production Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ Future Farmers of America (FFA)

Agriculture Courses
Greenhouse and Nursery Management
Course Code: 010610
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School ***Dual Credit*** *at Northwest High School, Portsmouth West High School, & Valley High School*

Course Description

Students will learn the operational practices needed for the successful growth of nursery stock and/or greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation and temperature control. Students will learn pest and disease identification and control along with bio-security practices. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized.

WebXam Required: Yes
WebXam Testing Code: 010610
Assessment Code for Subject: AAM5
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ A0: Agribusiness & Production Systems
Non-Traditional Concentrators: Female	
Career Technical Student Organizations (CTSOs): ➢ Future Farmers of America (FFA)	

Agriculture Courses

Livestock Selection, Nutrition and Management

Course Code: 010920

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG
Dual Credit at Northwest High School, Portsmouth West High School, & Valley High School

Course Description
Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

WebXam Required: Yes

WebXam Testing Code: 010920

Assessment Code for Subject: AEE0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ A0: Agribusiness & Production Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ Future Farmers of America (FFA)

BUSINESS & ADMINISTRATIVE SERVICES - 2024/2025

Scioto County Career Technical Center		
Location	Instructor	Contact Info
Scioto County CTC - Main Campus	**Tracy Stewart** *Medical Office Management*	tracy.stewart@sciototech.org

BUSINESS & ADMINISTRATIVE SERVICES

Program Name:	Instructor:
Scioto County CTC Medical Office Management	Tracy Stewart

Career Field:	Career Pathway:
Business & Administrative Services	C4 - Business & Administrative Services

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
072150	Medical Terminology *VT: 245 hours* **11th Grade**	**CTMT001**	Medical Terminology	3	*Must also take Medical Office Management to earn CTAG* *Statewide Articulation - CTAG*
		AHC13303	**University of Rio Grande:** Medical Terminology	3	*Bilateral Agreement with URG*
		AHNR1102	**Shawnee State University:** Intro to Medical Terminology	2	*Bilateral Agreement with SSU*
142000	Fundamentals of Business & Administrative Services *VT: 245 hours* **11th Grade**	**BM10403**	**University of Rio Grande:** Intro to Business	3	*Bilateral Agreement with URG*
142005	Office Management *VT: 245 hours* **12th Grade**	**BUOA2999**	**Shawnee State University:** Topics in Office Administration	3	*Bilateral Agreement with SSU* *must earn bilateral for 142015 as well*
142015	Medical Office Management *VT: 245 hours* **12th Grade**	**CTMT001**	Medical Terminology	3	*Must also take Medical Terminology to earn Statewide Articulation - CTAG*
		BUOA2999	**Shawnee State University:** Topics in Office Administration	3	*Bilateral Agreement with SSU* *must earn bilateral for 142015 as well*

Industry Recognized Credentials	Points Available	EMIS Code
RISE Up Fundamentals of Industry Retail	**6**	CG60
RISE Up Customer Service	**6**	CG59
NHA Certified Medical Administrative Assistant (CMAA)	**3**	CP20
OSHA 10-hour	**1**	CJ02
CPR/First Aid	**1**	CB62
Ohio Drivers License	**1**	CR63

MEDICAL OFFICE MANAGEMENT

Medical Terminology - 11th Grade - Course 1

Course Code: 072150

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 072150

Assessment Code for Subject: EGE0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ C4: Business and Administrative Services

Non-Traditional Concentrators: Neutral

Career Technical Student Organizations (CTSOs) Options:
➢ Business Professionals of America (BPA)
➢ Distributive Education Clubs of America (DECA)

MEDICAL OFFICE MANAGEMENT

Fundamentals of Business and Administrative Services - 11th Grade - Course 2

Course Code: 142000

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, Bilateral with URG

Course Description
Fundamentals of Business & Administrative Services is the recommended second course in the Business & Administrative Services and Logistics & Supply Chain Management pathways. Learners will develop fundamental knowledge and skills in business and operations management. This course also includes learning outcomes in business process analysis and information management.

WebXam Required: Yes

WebXam Testing Code: 142000

Assessment Code for Subject: JBV0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ C4: Business and Administrative Services

Non-Traditional Concentrators: Neutral

Career Technical Student Organizations (CTSOs) Options:
➢ Business Professionals of America (BPA)
➢ Distributive Education Clubs of America (DECA)

MEDICAL OFFICE MANAGEMENT

Office Management - 12th Grade - Course 3

Course Code: 142005

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, Bilateral with SSU

Course Description
Office Management explores how to manage people and information in a business environment. Learners will develop knowledge and skills in relationship management, employee onboarding, other human resources operations and knowledge and information management. This course also includes learning outcomes in contract oversight and business technology applications.

WebXam Required: Yes

WebXam Testing Code: 142005

Assessment Code for Subject: JBV5

Industry Credential in lieu of Assessment:
➤ None for this academic year

Workforce Development Type: ➤ PC - Pathway Course	**Program of Concentration:** ➤ C4: Business and Administrative Services

Non-Traditional Concentrators: Neutral

Career Technical Student Organizations (CTSOs) Options:
➤ Business Professionals of America (BPA)
➤ Distributive Education Clubs of America (DECA)

MEDICAL OFFICE MANAGEMENT

Medical Office Management - 12th Grade - Course 4

Course Code: 142015

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description

Medical Office Management explores how to manage people and information in medical offices. Learners will develop skills and knowledge to code medical procedures in accordance with applicable guidelines, convert patient information into electronic medical records and manage the insurance billing and collection process. This course also includes learning outcomes in compliance, safety and risk management.

WebXam Required: Yes

WebXam Testing Code: 142015

Assessment Code for Subject: JBV5

Industry Credential in lieu of Assessment:
➤ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➤ PC - Pathway Course	➤ C4: Business and Administrative Services

Non-Traditional Concentrators: Neutral

Career Technical Student Organizations (CTSOs) Options:
➤ Business Professionals of America (BPA)
➤ Distributive Education Clubs of America (DECA)

CONSTRUCTION TECHNOLOGIES - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	**Randy Dalton** *Carpentry*	randy.dalton@sciototech.org
Scioto County CTC - Main Campus	**Chris Mounts** *Facilities & Building Maintenance*	chris.mounts@sciototech.org
Green High School	**Leroy Wells** *Construction*	leroy.wells@sciototech.org
Portsmouth High School	**Joe Ward** *Construction*	joe.ward@sciototech.org
Scioto County CTC - Main Campus	**Greg Shirey** *Electricity*	greg.shirey@sciototech.org
Scioto County CTC - Main Campus	**Michael Wells** *Industrial Maintenance*	michael.wells@sciototech.org

CONSTRUCTION TECHNOLOGIES

Program Name: Scioto County CTC Carpentry	Instructor: Randy Dalton
Career Field: Construction Technologies	Career Pathway: DD - Structural Systems

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
178000	Construction Technologies - Core & Sustainable Construction *VT: 245 hours* **11th Grade**				
178018	Construction Safety & Crew Leadership *VT: 245 hours* **11th Grade**	CTCON002	Construction Safety (OSHA 30-hour)	3	*Statewide Articulation - CTAG*
178003	Structural Systems *VT: 245 hours* **12th Grade**				
178004	Structural Coverings & Finishes *VT: 245 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion	12	CJ99
CITF Career Connections Certificate - Level 1	4	CJ64
CITF Career Connections Certificate - Level 2	4	CJ65
CITF Career Connections Certificate - Level 3	4	CJ66
Forklift Operation	1	CJ93
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62
Ohio Drivers License	1	CR63

CARPENTRY
Construction Technology - Core and Sustainable Construction - 11th Grade - Course 1

Course Code: 178000

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

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

WebXam Required: Yes

WebXam Testing Code: 178000

Assessment Code for Subject: MCZ0

Industry Credential in lieu of Assessment:
➢ CH-91 NCCER Core

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DD: Structural Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

CARPENTRY

Construction Safety and Crew Leadership - 11th Grade - Course 2

Course Code: 178018

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 178018

Assessment Code for Subject: MDA8

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ DD: Structural Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

CARPENTRY
Structural Systems - Grade 12 - Course 3
Course Code: 178003
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description
Students will learn procedures and techniques required for layout and framing of walls and ceilings, including roughing-in door and window openings, constructing corners and partitions; bracing walls and ceilings; and applying sheathing. Students will learn methods of roof, cold formed steel, and wood stair framing. Students will learn site and personal safety, material properties, design procedures, and code requirements for structural systems

WebXam Required: Yes
WebXam Testing Code: 178003
Assessment Code for Subject: MCZ3
Industry Credential in lieu of Assessment: ➢ CH-91 NCCER Core <u>and</u> CQ68 NCCER Carpentry Level 1

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DD: Structural Systems

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➢ SkillsUSA

CARPENTRY
Structural Coverings and Finishes - 12th Grade - Course 4

Course Code: 178004
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 178004
Assessment Code for Subject: MCZ4
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DD: Structural Systems

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➢ SkillsUSA

CONSTRUCTION TECHNOLOGIES

Program Name: Green High School Construction	**Instructor:** Leroy Wells
Career Field: Construction Technologies	**Career Pathway:** DD - Structural Construction

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
178018	Construction Safety & Crew Leadership *VT: 130 hours*	CTCON002	Construction Safety (OSHA 30-hour)	3	*Statewide Articulation - CTAG*
178030	Principles of Wood Construction *VT: 130 hours*				

Industry Recognized Credentials	Points Available	EMIS Code
NCCER Core	6	CH91
Bleeding Control Basics 1.0 Course	1	CP05
Forklift Operation	1	CJ93
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62
3M: Head, Eye, and Face Protection	1	CP59
3M: Hearing & Noise Protection	1	CP60
3M: Respiratory Protections	1	CP61
Ohio Drivers License	1	CR63

CONSTRUCTION TECHNOLOGIES - GREEN HIGH SCHOOL

Construction Safety and Crew Leadership

Course Code: 178018

Curriculum Type: VT (high school)

Instructional Hours Required: VT: 120-280

Credit Available: High School, CTAG

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 178018

Assessment Code for Subject: MDA8

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ DD: Structural Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

CONSTRUCTION TECHNOLOGIES - GREEN HIGH SCHOOL
Principles of Wood Construction
Course Code: 178030
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description
Students will engage in the introductory skills utilized in working with various wood construction materials. They will l earn to use basic measuring tools, hand tools and machines, common to the wood industry, to construct basic projects. Additionally, students will examine various wood construction materials and their properties. Throughout the course, students will learn components of site and personal safety.

WebXam Required: Yes
WebXam Testing Code: 178030
Assessment Code for Subject: MDC0
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DD: Structural Systems

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➢ SkillsUSA

CONSTRUCTION TECHNOLOGIES

Program Name: Portsmouth High School Construction		Instructor: Joe Ward			
Career Field: Construction Technologies		**Career Pathway:** DD - Structural Systems			

Courses for 2024/2025 *CTAG credit is earned by passage of course and proficiency on WebXam.* *Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.*					
EMIS Course Codes	**CTE-26 Course Name**	**College Course Code**	**College Course Name**	**College Credits**	**Additional Information**
178018	Construction Safety & Crew Leadership *VT: 150 hours*	**CTCON002**	Construction Safety (OSHA 30-hour)	3	*Statewide Articulation - CTAG*
178030	Principles of Wood Construction *VT: 150 hours*				

Industry Recognized Credentials	Points Available	EMIS Code
NCCER Core	**6**	CH91
Bleeding Control Basics 1.0 Course	**1**	CP05
Forklift Operation	**1**	CJ93
OSHA 10-hour	**1**	CJ02
CPR/First Aid	**1**	CB62
3M: Head, Eye, and Face Protection	**1**	CP59
3M: Hearing & Noise Protection	**1**	CP60
3M: Respiratory Protections	**1**	CP61
Ohio Drivers License	**1**	CR63

CONSTRUCTION TECHNOLOGIES - PORTSMOUTH HIGH SCHOOL

Construction Safety and Crew Leadership

Course Code: 178018

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 178018

Assessment Code for Subject: MDA8

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DD: Structural Systems

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

CONSTRUCTION TECHNOLOGIES - PORTSMOUTH HIGH SCHOOL
Principles of Wood Construction
Course Code: 178030
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description

Students will engage in the introductory skills utilized in working with various wood construction materials. They will learn to use basic measuring tools, hand tools and machines, common to the wood industry, to construct basic projects. Additionally, students will examine various wood construction materials and their properties. Throughout the course, students will learn components of site and personal safety.

WebXam Required: Yes
WebXam Testing Code: 178030
Assessment Code for Subject: MDC0
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DD: Structural Systems

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs):   ➢ SkillsUSA

CONSTRUCTION TECHNOLOGIES

Program Name: Scioto County CTC Electricity	**Instructor:** Greg Shirey
Career Field: Construction Technologies	**Career Pathway:** DE - Mechanical, Electrical, & Plumbing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
178000	Construction Technologies - Core & Sustainable Construction *VT: 245 hours* **11th Grade**				
178007	Construction Electrical Systems *VT: 245 hours* **11th Grade**				
178008	Residential Electrical Systems *VT: 245 hours* **12th Grade**	**ETEM1103**	**Shawnee State University:** Industrial Electricity	**2**	*Bilateral Agreement with SSU*
178009	Commercial & Industrial Construction Electrical Systems *VT: 245 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
Electrical Training Alliance	**12**	CJ71
Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion	**12**	CJ99
Aerial Work Platform (AWP) Operator Training	**2**	CP03
Aerial Manlift Operation	**2**	CJ94

Forklift Operation	**1**	CJ93
OSHA 10-hour	**1**	CJ02
CPR/First Aid	**1**	CB62
Bleeding Control Basics 1.0 Course	**1**	CP05
NC3/Greenlee Professional Tools - Cable Pulling	**1**	CQ54
NC3/Greenlee Professional Tools - Electrical Branch/Series Level Wire Termination	**1**	CQ56
NC2/Greenlee Professional Tools - Fishing Conduits and Raceways	**1**	CQ57
NC3/Greenlee Professional Tools - Hand Bending	**1**	CQ58
NC3/Greenlee Professional Tools - Insulation and Ground Rod Resistance Testing	**1**	CQ59
NC3/Greenlee Professional Tools - Wire Pathways: Knockout	**1**	CQ60
NC3/Greenlee Professional Tools - Wire Pathways: Rotary	**1**	CQ61
NC3/Greenlee Professional Tools - 3-Phase Sequencing and Motor Rotation	**1**	CQ51
NC3/Greenlee Professional Tools - Advanced Conduit Bending	**1**	CQ52
Ohio Drivers License	**1**	CR63

ELECTRICITY

Construction Technology - Core and Sustainable Construction - 11th Grade - Course 1

Course Code: 178000

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

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

WebXam Required: Yes

WebXam Testing Code: 178000

Assessment Code for Subject: MCZ0

Industry Credential in lieu of Assessment:
➢ CH-91 NCCER Core

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

ELECTRICITY
Construction Electrical Systems - 11th Grade - Course 2
Course Code: 178007
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 178007
Assessment Code for Subject: MCZ7
Industry Credential in lieu of Assessment: ➤ None for this academic year

Workforce Development Type: ➤ PC - Pathway Course	**Program of Concentration:** ➤ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➤ SkillsUSA

ELECTRICITY

Residential Electrical Systems - 12th Grade - Course 3

Course Code: 178008

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, Bilateral with SSU

Course Description
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 outlets, lighting and small appliance circuits. They will understand circuit protection concepts and install a subpanel. Specialty circuit installation will be addressed.

WebXam Required: Yes

WebXam Testing Code: 178008

Assessment Code for Subject: MCZ8

Industry Credential in lieu of Assessment:
➢ CH-91 NCCER Core <u>and</u> CH-14 NCCER Level 1 Electrical

Workforce Development Type: ➢ PC - Pathway Course	Program of Concentration: ➢ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

ELECTRICITY

Commercial and Industrial Construction Electrical Systems - 12th Grade - Course 4

Course Code: 178009

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
Students will plan and install electrical systems in commercial settings. Students learn worksite safety and understand permitting requirements. Students interpret plans and job specifications and calculate loads and service requirements. Students install, test and repair receptacle outlets, lighting and equipment circuits. They will understand circuit protection concepts and be able to install entrance panels. Specialty commercial circuit installation will be addressed. Students apply operating principles to the installation and troubleshooting of motors and controls.

WebXam Required: Yes

WebXam Testing Code: 178009

Assessment Code for Subject: MCZ7

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

CONSTRUCTION TECHNOLOGIES

Program Name:	Instructor:
Scioto County CTC Industrial Maintenance	Michael Wells

Career Field:	Career Pathway:
Construction Technologies	DE - Mechanical, Electrical, & Plumbing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
178000	Construction Technologies - Core & Sustainable Construction *VT: 245 hours* **11th Grade**				
178001	Carpentry & Masonry Technical Skills *VT: 245 hours* **11th Grade**	CTCON003	Construction Methods & Materials	3	*Statewide Articulation - CTAG*
178002	Mechanical, Electrical, & Plumbing Systems *VT: 245 hours* **12th Grade**				
178008	Residential Electrical Systems *VT: 245 hours* **12th Grade**	ETEM1103	**Shawnee State University:** Industrial Electricity	2	*Bilateral Agreement with SSU*

Industry Recognized Credentials	Points Available	EMIS Code
*NCCER Core (**can replace WebXam 178000**)*	6	CH91
NCCER Level 1 - Area of Strength for Students (Carpentry, Plumbing, Welding, etc.)	6	CH14
Forklift Operation	1	CJ93
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62

INDUSTRIAL MAINTENANCE
Construction Technology - Core and Sustainable Construction - 11th Grade - Course 1
Course Code: 178000
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

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

WebXam Required: Yes
WebXam Testing Code: 178000
Assessment Code for Subject: MCZ0

Industry Credential in lieu of Assessment:
➢ CH-91 NCCER Core

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

INDUSTRIAL MAINTENANCE

Carpentry and Masonry Technical Skills - 11th Grade - Course 2

Course Code: 178001

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
This first course in the pathway will introduce to students the materials, methods, and equipment used in carpentry and masonry. Students will organize a project work sequence by interpreting plans and diagrams within a construction drawing set. They will layout and install basic wall, floor and roof applications. Students will perform introductory concrete applications including formwork, reinforcement, mixing, and finishing. Current advancements in technology, safety, applicable code requirements and correct practices are learned.

WebXam Required: Yes

WebXam Testing Code: 178001

Assessment Code for Subject: MCZ1

Industry Credential in lieu of Assessment:
➤ None available for this academic year

Workforce Development Type:	**Program of Concentration:**
➤ PC - Pathway Course	➤ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➤ SkillsUSA

INDUSTRIAL MAINTENANCE

Mechanical, Electrical and Plumbing Systems - 12th Grade - Course 3

Course Code: 178002

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
Students learn physical principles and fundamental skills across mechanical systems in construction. Studentswill 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.

WebXam Required: Yes

WebXam Testing Code: 178002

Assessment Code for Subject: MCZ2

Industry Credential in lieu of Assessment:
➢ None available for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

INDUSTRIAL MAINTENANCE
Residential Electrical Systems - 12th Grade - Course 4
Course Code: 178008
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School, Bilateral with SSU

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 178008
Assessment Code for Subject: MCZ8
Industry Credential in lieu of Assessment: ➢ CH-91 NCCER Core <u>and</u> CH-14 NCCER Level 1 Electrical

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DE: Mechanical, Electrical and Plumbing

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➢ SkillsUSA

CONSTRUCTION TECHNOLOGIES

Program Name: Scioto County CTC Facility & Building Maintenance	Instructor: Chris Mounts
Career Field: Construction Technologies	Career Pathway: DF - Design

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
178000	Construction Technologies - Core & Sustainable Construction *VT: 245 hours* **11th Grade**				
178024	Facility & Building Maintenance *VT: 245 hours* **11th Grade**				
178001	Carpentry & Masonry Technical Skills *VT: 245 hours* **12th Grade**	**CTCON003**	Construction Methods & Materials	3	*Statewide Articulation - CTAG*
178012	Heating & Cooling Systems *VT: 245 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion	**12**	CJ99
Aerial Manlift Operation	**2**	CJ94
Forklift Operation	**1**	CJ93
OSHA 10-hour	**1**	CJ02
CPR/First Aid	**1**	CB62
Ohio Drivers License	**1**	CR63

FACILITIES & BUILDING MAINTENANCE

Construction Technology - Core and Sustainable Construction - 11th Grade - Course 1

Course Code: 178000

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

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

WebXam Required: Yes

WebXam Testing Code: 178000

Assessment Code for Subject: MCZ0

Industry Credential in lieu of Assessment:
➢ CH-91 NCCER Core

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ DF: Construction Design and Management

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

FACILITIES & BUILDING MAINTENANCE

Facilities and Building Maintenance - 11th Grade - Course 2

Course Code: 178024

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
Students are introduced to the maintenance and management processes used in public buildings and industrial facilities. Students will troubleshoot building and systems issues and provide solutions following applicable procedures and standards. Students will operate and maintain machinery and equipment used in grounds and facilities maintenance tasks. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.

WebXam Required: Yes

WebXam Testing Code: 178024

Assessment Code for Subject: MDB4

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ DF: Construction Design and Management

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

FACILITIES & BUILDING MAINTENANCE

Carpentry and Masonry Technical Skills - 12th Grade - Course 3

Course Code: 178001

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
This first course in the pathway will introduce to students the materials, methods, and equipment used in carpentry and masonry. Students will organize a project work sequence by interpreting plans and diagrams within a construction drawing set. They will layout and install basic wall, floor and roof applications. Students will perform introductory concrete applications including formwork, reinforcement, mixing, and finishing. Current advancements in technology, safety, applicable code requirements and correct practices are learned.

WebXam Required: Yes

WebXam Testing Code: 178001

Assessment Code for Subject: MCZ1

Industry Credential in lieu of Assessment:
➢ None available for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ DF: Construction Design and Management

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

FACILITIES & BUILDING MAINTENANCE

Heating and Cooling Systems - 12th Grade - Course 4

Course Code: 178012

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

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

WebXam Required: Yes

WebXam Testing Code: 178012

Assessment Code for Subject: MDA2

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ DF: Construction Design and Management

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

EDUCATION & TRAINING - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	Lindsay Culbertson	lindsay.culbertson@sciototech.org

EDUCATION & TRAINING

Program Name: Scioto County CTC Child Care | **Instructor:** Lindsay Culbertson

Career Field: Education & Training | **Career Pathway:** E0 - Early Childhood Education

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
350002	Foundations of Education & Training *VT: 245 hours* **11th Grade**				
350225	Communities, Schools, & Stakeholders *VT: 245 hours* **11th Grade**				
350215	Early Childhood Education Language & Literacy *VT: 245 hours* **12th Grade**				
350230	Health Safety & Nutrition *VT: 245 hours* **12th Grade**	CTECE002	Health, Safety, & Nutrition	2	*Statewide Articulation - CTAG*
		SPST2100	**Shawnee State University:** Personal and Community Health	3	*Bilateral Agreement with SSU*

Industry Recognized Credentials	Points Available	EMIS Code
Council for Professional Recognition - Child Development Associate Credential (CDA) **(Eligible for ITAG college credit)**	12	CB14
ParaPro	6	CQ73
ServSafe - Allergens	1	CQ77

ServSafe - Food Handler	**1**	CQ78
Child Abuse Awareness & Prevention	**1**	CJ69
OSHA 10-hour	**1**	CJ02
CPR/First Aid	**1**	CB62
Communicable Disease Training for Child Care Program Personnel	**1**	CJ70
Ohio Drivers License	**1**	CR63

CHILD CARE

Foundations of Education and Training - 11th Grade - Course 1

Course Code: 350002

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
In this first course in the career field, students will examine the goals of education and training as well as environments in which education and training are delivered. They will identify learners' and stakeholders' roles, rights and responsibilities in educational systems; assess legal and ethical issues related to education; and determine careers of interest in education and training. Employability skills and state requirements for becoming an educator will also be addressed.

WebXam Required: Yes

WebXam Testing Code: 350002

Assessment Code for Subject: UGR2

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ E0: Early Childhood Education

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Educator Rising
➢ Family, Career and Community Leaders of America (FCCLA)

CHILD CARE

Communities, Schools and Stakeholders - 11th Grade - Course 2

Course Code: 350225

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
Students will examine the relationship of families, communities and schools in the growth and development of learners. They will implement strategies to actively involve families and communities in child development and learning, determine community resources and services available to families and schools, and act as advocates for students and learning. Throughout the course, working with socially, culturally, linguistically diverse families will be emphasized.

WebXam Required: Yes

WebXam Testing Code: 350225

Assessment Code for Subject: UHP5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ E0: Early Childhood Education

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Educator Rising
➢ Family, Career and Community Leaders of America (FCCLA)

CHILD CARE
Early Childhood Education Language & Literacy - 12th Grade - Course 3
Course Code: 350215
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description
Students will implement instructional strategies to develop young children's reading, writing, listening and speaking skills. They will assess learners' reading ability, establish reading goals for learners, and analyze learners' writing samples for comprehension and understanding. The importance of early exposure to reading and writing will be emphasized.

WebXam Required: Yes
WebXam Testing Code: 350215
Assessment Code for Subject: UHN5
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ E0: Early Childhood Education

Non-Traditional Concentrators: Male
Career Technical Student Organizations (CTSOs) Options: ➢ Educator Rising ➢ Family, Career and Community Leaders of America (FCCLA)

CHILD CARE

Health, Safety, and Nutrition - 12th Grade - Course 4

Course Code: 350230

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 350230

Assessment Code for Subject: UHR0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ E0: Early Childhood Education

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Educator Rising
➢ Family, Career and Community Leaders of America (FCCLA)

ENGINEERING SCIENCE & TECHNOLOGIES 2024/2025

Scioto County Career Technical Center		
Location	Instructor	Contact Info
Scioto County CTC - Main Campus	Craig Tackett	stephen.tackett@sciototech.org
Northwest High School	Eric Moore	eric.moore@sciototech.org
Portsmouth West High School	Philip Cox	philip.cox@sciototech.org
South Webster High School	Josie Collier	josie.collier@sciototech.org
Wheelersburg High School	Josie Collier	josie.collier@sciototech.org

ENGINEERING & SCIENCE TECHNOLOGY

Program Name: Scioto County CTC Engineering	**Instructor:** Craig Tackett
Career Field: Engineering & Science Technology	**Career Pathway:** F6 - Engineering Science & Technologies

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
175001	Engineering Design *VT: 245 hours* **11th Grade** **Offered as dual credit through SSCC for those that qualify (2 college credit hours)*	CTEGT002	Engineering Graphics	3	*Statewide Articulation - CTAG*
175002	Engineering Principles *VT: 245 hours* **11th Grade**	CTEG001	Introduction to Engineering	1	*Statewide Articulation - CTAG*
		ETCO1999	**Shawnee State University:** Special Topics in Engineering Technology	3	*Bilateral Agreement with SSU*
176010	Principles of Manufacturing *VT: 245 hours* **12th Grade**	ETCO1999	**Shawnee State University:** Special Topics in Engineering Technology	3	*Bilateral Agreement with SSU*
178019	Plan Reading & Estimating *VT: 245 hours* **12th Grade** **Offered as dual credit through SSCC for those that qualify (3 college credit hours)*	CTECON001	Plan Reading	3	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
FANUC - Handling Tool Operation & Programming J2P-31 IACT Approved	**6**	CM13
Autocad User	**4**	CH98
Autodesk Certified User Revit Architecture	**4**	CP82
Autodesk Fusion 360 Certified User	**4**	CP84
FANUC Certified CNC Machining Center Programming, Setup, and Operation	**4**	CP13
Snap On Multimeter Certification	**3**	CR05
FANUC Certified Robot Operation 1 Certification **(Eligible for ITAG college credit)**	**3**	CQ01
Aerial Manlift Operation	**2**	CJ94
Forklift Operation	**1**	CJ93
OSHA 10-hour	**1**	CJ02
CPR/First Aid	**1**	CB62
Ohio Drivers License	**1**	CR63

ENGINEERING

Engineering Design - 11th Grade - Course 1

Course Code: 175001

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Dual Credit with SSCC

Course Description
Students will learn the application of the engineering design process. Topics include work-processes, optimization methods, design optimization and risk management tools. Students will use 2D and 3D modeling software to help them design solutions to proposed problems, document their work and communicate solutions. Additionally, students will interpret industry prints and create working drawings from functional models. Emphasis is given to experimental problem solving in real systems.

WebXam Required: Yes

WebXam Testing Code: 175001

Assessment Code for Subject: LNX1

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ F6: Engineering & Science Technologies

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA
➢ Technology Student Association (TSA)

ENGINEERING

Engineering Principles - 11th Grade - Course 2

Course Code: 175002

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description
This course will introduce students to fundamental engineering concepts and scientific principles associated with engineering design applications. Topics include mechanisms, energy statics, materials and kinematics. Additionally, students will learn material properties and electrical, control and fluid power systems. Students will learn to apply problem solving, research and design skills to create solutions to engineeringchallenges.

WebXam Required: Yes

WebXam Testing Code: 175002

Assessment Code for Subject: LNX2

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ F6: Engineering & Science Technologies

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA
➢ Technology Student Association (TSA)

ENGINEERING

Principles of Manufacturing - 12th Grade - Course 3

Course Code: 178010

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, Bilateral with SSU

Course Description
Students will apply knowledge and skills required in the application of standard manufacturing practices including planning, design and visualization. Students will learn and apply skills related to interpreting drawings, creating documentation and performing measurements. Additionally, students will use principles and techniques of Computer Numerical Control (CNC), employ scheduling, and practice project evaluation.

WebXam Required: Yes

WebXam Testing Code: 175010

Assessment Code for Subject: LUH0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:
➢ PC - Pathway Course

Program of Concentration:
➢ F6: Engineering & Science Technologies

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA
➢ Technology Student Association (TSA)

ENGINEERING

Plan Reading and Estimating - 12th Grade - Course 4

Course Code: 178019

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Dual Credit with SSCC

Course Description
Students learn blueprint reading as it relates to architecture and construction. Students will use scaling, orthographic projections, dimensioning practices, symbols, notations, and abbreviations to perform area calculations and to interpret floor plan, section, and elevations and develop an estimate of material, time, personnel, and equipment needs, availability, and cost. Using construction plans, students will identify problems or shortcomings related to the layout and installation of materials for the project.

WebXam Required: Yes

WebXam Testing Code: 178019

Assessment Code for Subject: MDA9

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ F6: Engineering & Science Technologies

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA
➢ Technology Student Association (TSA)

ENGINEERING & SCIENCE TECHNOLOGY

Program Name:	Instructor:
Northwest High School Engineering	Eric Moore

Career Field:	Career Pathway:
Engineering & Science Technology	F6 - Engineering Science & Technologies

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
175001	Engineering Design *VT: 120 hours*	CTEGT002	Engineering Graphics	3	*Statewide Articulation - CTAG*
175002	Engineering Principles *VT: 120 hours*	CTEG001	Introduction to Engineering	1	*Statewide Articulation - CTAG*
		ETCO1999	**Shawnee State University:** Special Topics in Engineering Technology	3	*Bilateral Agreement with SSU*
175007	Digital Electronics *VT: 120 hours*	CTEET002	Digital Electronics	4	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
Autodesk Inventor Certified Professional **(Eligible for ITAG college credit)**	6	CP83
Autodesk Inventor Certified User Certification	4	CJ62
Autodesk Fusion 360 Certified User	4	CP84
3M: Head, Eye, and Face Protection	1	CP59
3M: Hearing and Noise Protection	1	CP60
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62
Ohio Drivers License	1	CR63

ENGINEERING & SCIENCE TECHNOLOGY

Program Name: Portsmouth West High School Engineering	Instructor: Philip Cox
Career Field: Engineering & Science Technology	Career Pathway: F6 - Engineering Science & Technologies

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
175001	Engineering Design *VT: 145 hours*	CTEGT002	Engineering Graphics	3	*Statewide Articulation - CTAG*
175002	Engineering Principles *VT: 145 hours*	CTEG001	Introduction to Engineering	1	*Statewide Articulation - CTAG*
		ETCO1999	**Shawnee State University:** Special Topics in Engineering Technology	3	*Bilateral Agreement with SSU*
175007	Digital Electronics *VT: 132 hours*	CTEET002	Digital Electronics	4	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
Autodesk Inventor Certified User Certification	4	CJ62
Autodesk Fusion 360 Certified User	4	CP84
Certified Additive Manufacturing Fundamentals (CAM-F) AND Certified Drafter Mechanical	3	CP06
3M: Head, Eye, and Face Protection	1	CP59
3M: Hearing and Noise Protection	1	CP60
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62
Ohio Drivers License	1	CR63

ENGINEERING & SCIENCE TECHNOLOGY

Program Name:	Instructor:
South Webster High School Engineering	Josie Collier

Career Field:	Career Pathway:
Engineering & Science Technology	F6 - Engineering Science & Technologies

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
175001	Engineering Design *VT: 126 hours*	CTEGT002	Engineering Graphics	3	*Statewide Articulation - CTAG*
175002	Engineering Principles *VT: 126 hours*	CTEG001	Introduction to Engineering	1	*Statewide Articulation - CTAG*
		ETCO1999	**Shawnee State University:** Special Topics in Engineering Technology	3	*Bilateral Agreement with SSU*

Industry Recognized Credentials	Points Available	EMIS Code
Autodesk Inventor Certified User Certification	4	CJ62
Certified Additive Manufacturing Fundamentals (CAM-F) AND Certified Drafter Mechanical	3	CP06
Lead4Change Student Leadership Program	3	CQ07
OSHA 10-hour	1	CJ02
Ohio Drivers License	1	CR63

ENGINEERING & SCIENCE TECHNOLOGY

Program Name: Wheelersburg High School Engineering	Instructor: Josie Collier
Career Field: Engineering & Science Technology	**Career Pathway:** F6 - Engineering Science & Technologies

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
175001	Engineering Design *VT: 156 hours*	**CTEGT002**	Engineering Graphics	**3**	*Statewide Articulation - CTAG*
175002	Engineering Principles *VT: 156 hours*	**CTEG001**	Introduction to Engineering	**1**	*Statewide Articulation - CTAG*
		ETCO1999	**Shawnee State University:** Special Topics in Engineering Technology	**3**	*Bilateral Agreement with SSU*

Industry Recognized Credentials	Points Available	EMIS Code
Autodesk Inventor Certified User Certification	**4**	CJ62
Certified Additive Manufacturing Fundamentals (CAM-F) AND Certified Drafter Mechanical	**3**	CP06
Lead4Change Student Leadership Program	**3**	CQ07
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

ENGINEERING
Offered at: *Northwest High School, Portsmouth West High School, South Webster High School, Wheelersburg High School*

Engineering Design

Course Code: 175001

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
Students will learn the application of the engineering design process. Topics include work-processes, optimization methods, design optimization and risk management tools. Students will use 2D and 3D modeling software to help them design solutions to proposed problems, document their work and communicate solutions. Additionally, students will interpret industry prints and create working drawings from functional models. Emphasis is given to experimental problem solving in real systems.

WebXam Required: Yes

WebXam Testing Code: 175001

Assessment Code for Subject: LNX1

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ F6: Engineering & Science Technologies

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA
➢ Technology Student Association (TSA)

ENGINEERING
Offered at: *Northwest High School, Portsmouth West High School, South Webster High School, Wheelersburg High School*

Engineering Principles

Course Code: 175002

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description
This course will introduce students to fundamental engineering concepts and scientific principles associated with engineering design applications. Topics include mechanisms, energy statics, materials and kinematics. Additionally, students will learn material properties and electrical, control and fluid power systems. Students will learn to apply problem solving, research and design skills to create solutions to engineeringchallenges.

WebXam Required: Yes

WebXam Testing Code: 175002

Assessment Code for Subject: LNX2

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ F6: Engineering & Science Technologies

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA
➢ Technology Student Association (TSA)

ENGINEERING
Offered at: *Northwest High School, Portsmouth West High School*

Digital Electronics

Course Code: 175007

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description
Students are introduced to the process of combinational and sequential logic design. The system uses a precise sequence of discrete voltages, representing numbers, non-numeric symbols or commands for input, processing, transmission, storage or display. Engineering standards and methods for technical documentation will also be learned.

WebXam Required: Yes

WebXam Testing Code: 175007

Assessment Code for Subject: LNX7

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ F6: Engineering & Science Technologies

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA
➢ Technology Student Association (TSA)

HEALTH SCIENCE - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	**Bethanie Lundy** *Allied Health*	bethanie.lundy@sciototech.org
Scioto County CTC - Main Campus	**Renea Gregory** *Dental Assisting*	renea.gregory@sciototech.org
Portsmouth High School	**Brooke Skeenes** *Allied Health*	brooke.skeenes@sciototech.org
Portsmouth West High School	**Chelsey Blanton** *Allied Health*	chelsey.blanton@sciototech.org
Valley High School	**Chelsey Blanton** *Allied Health*	chelsey.blanton@sciototech.org
Wheelersburg High School	**Brooke Skeenes** *Allied Health*	brooke.skeenes@sciototech.org

HEALTH SCIENCE

Program Name: Scioto County CTC Allied Health	Instructor: Bethanie Lundy
Career Field: Health Sciences	Career Pathway: JM - Allied Health & Nursing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
072001	Health Science & Technology *VT: 245 hours* **11th Grade**	MLTC1140	**Shawnee State University:** Introduction to Medical Laboratory Technology	3	*Bilateral Agreement with SSU* *must earn for 072001, 072035, & 072050* *Students would first need to meet the SSU MLT program admission requirements to be considered for admission to the program*
072035	Principles of Allied Health *VT: 245 hours* **11th Grade**				
072050	Patient Centered Care *VT: 245 hours* **12th Grade**				
072065	Mental Health *VT: 245 hours* **12th Grade**	CTBH001	Mental Health	3	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
National Health Career Association (NHA) Certified Phlebotomy Technician	12	CH30
National Competency Testing (NCCT) - National Certified Patient Care Technician (NCPCT)	12	CQ34
National Center for Competency Testing - National Certified ECG Technician (NCET)	3	CS36
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62
Ohio Drivers License	1	CR63

ALLIED HEALTH

Health Science and Technology - 11th Grade - Course 1

Course Code: 072001

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, Bilateral with SSU

Course Description
This first course in the career field provides students an overview of the opportunities available in the healthcare industry. Students will learn fundamental skills in effective and safe patient care that can be applied across a person's lifespan. They will also be introduced to exercise science and sports medicine, the field of biomedical research and the importance of managing health information.

WebXam Required: Yes

WebXam Testing Code: 072001

Assessment Code for Subject: EFN1

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

ALLIED HEALTH

Principles of Allied Health - 11th Grade - Course 2

Course Code: 072035

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, Bilateral with SSU

Course Description
In this 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.

WebXam Required: Yes

WebXam Testing Code: 072035

Assessment Code for Subject: EFS5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

ALLIED HEALTH

Patient Centered Care - 12th Grade - Course 3

Course Code: 072050

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, Bilateral with SSU

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 072050

Assessment Code for Subject: EFU0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

ALLIED HEALTH
Mental Health - 12th Grade - Course 4
Course Code: 072065
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School, CTAG

Course Description
Students learn contemporary mental health theories related to psychiatric disorders and mental diseases. Students will differentiate between stress, anxiety, and crisis, and identify methods to maintain mental health, including problem-solving techniques, treatment and intervention strategies. Students will assess, plan, implement and evaluate the mental health needs of the client. Additionally, students will use therapeutic communication techniques and be able to discuss documentation guidelines and the plan of care with the patient.

WebXam Required: Yes
WebXam Testing Code: 072065
Assessment Code for Subject: EFV5
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male
Career Technical Student Organizations (CTSOs) Options: ➢ Health Occupation Students of America (HOSA) ➢ SkillsUSA

HEALTH SCIENCE

Program Name:	Instructor:
Scioto County CTC Dental Assisting	Renea Gregory

Career Field: Health Sciences	Career Pathway: JM - Allied Health & Nursing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
072075	Dental Technology *VT: 262 hours* **11th Grade**	CTDA001	Introduction to Dental Assisting	1	*Statewide Articulation - CTAG*
072080	Oral Diagnosis & Treatment Planning *VT: 230 hours* **11th Grade**				
072076	Dental Radiography *VT: 230* **12th Grade**	CTDA002	Dental Radiography	2	*Statewide Articulation - CTAG*
072155	Medical & Dental Office Technology *VT: 262 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
American Medical Technologists (AMT) - Registered Dental Assistant (RDA)	6	CA37
Commission on Ohio Dental Assistants Certification (CODA)	6	CB38
Ohio State Dental Board - Dental Assistant Radiographers Certificate	6	CJ35
OSHA 30-hour	3	CJ01
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62
3M: Head, Eye, and Face Protection	1	CP59
3M: Hearing and Noise Protection	1	CP60

3M: Respiratory Protection	**1**	CP61
Bleeding Control Basic 1.0 Course	**1**	CP05
Ohio Drivers License	**1**	CR63

DENTAL ASSISTING

Dental Technology - 11th Grade - Course 1

Course Code: 072075

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
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

WebXam Required: Yes

WebXam Testing Code: 072075

Assessment Code for Subject: EFW5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

DENTAL ASSISTING

Oral Diagnosis and Treatment Planning - 11th Grade - Course 2

Course Code: 072080

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 072080

Assessment Code for Subject: EFX0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

DENTAL ASSISTING

Dental Radiography - 12th Grade - Course 3

Course Code: 072080

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 072080

Assessment Code for Subject: EFW5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

DENTAL ASSISTING
Medical and Dental Office Technology - 12th Grade - Course 4
Course Code: 072155
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description
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.

WebXam Required: Yes
WebXam Testing Code: 072155
Assessment Code for Subject: EGE5
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male
Career Technical Student Organizations (CTSOs) Options: ➢ Health Occupation Students of America (HOSA) ➢ SkillsUSA

HEALTH SCIENCE

Program Name: Portsmouth High School Allied Health	Instructor: Brooke Skeenes
Career Field: Health Sciences	**Career Pathway:** JM - Allied Health & Nursing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
072040	Human Anatomy & Physiology *VT: 150 hours*				
072150	Medical Terminology *VT: 150 hours*	**CTMT001**	Medical Terminology	**3**	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
Ohio High School Athletic Association - Officiating License	**4**	CS45
American Red Cross Lifeguarding Certification	**4**	CR77
Bleeding Control Basics	**1**	CP05
CPR/First Aid	**1**	CB62
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

HEALTH SCIENCE

Program Name: Portsmouth West High School Allied Health	Instructor: Chelsey Blanton
Career Field: Health Sciences	**Career Pathway:** JM - Allied Health & Nursing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
072040	Lifespan Development & Medical Interventions *VT: 145 hours*				
072150	Medical Terminology *VT: 145 hours*	CTMT001	Medical Terminology	3	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
Ohio High School Athletic Association - Officiating License	4	CS45
American Red Cross Lifeguarding Certification	4	CR77
Bleeding Control Basics	1	CP05
CPR/First Aid	1	CB62
OSHA 10-hour	1	CJ02
Ohio Drivers License	1	CR63

HEALTH SCIENCE

Program Name: Valley High School Allied Health	Instructor: Chelsey Blanton
Career Field: Health Sciences	**Career Pathway:** JM - Allied Health & Nursing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
072040	Lifespan Development & Medical Interventions *VT: 135 hours*				
072150	Medical Terminology *VT: 135 hours*	CTMT001	Medical Terminology	3	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
Ohio High School Athletic Association - Officiating License	4	CS45
American Red Cross Lifeguarding Certification	4	CR77
Bleeding Control Basics	1	CP05
CPR/First Aid	1	CB62
OSHA 10-hour	1	CJ02
Ohio Drivers License	1	CR63

HEALTH SCIENCE

Program Name:	Instructor:
Wheelersburg High School Allied Health	Brooke Skeenes

Career Field: Health Sciences	Career Pathway: JM - Allied Health & Nursing

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
072040	Human Anatomy & Physiology *VT: 156 hours*				
072150	Medical Terminology *VT: 156 hours*	CTMT001	Medical Terminology	3	*Statewide Articulation - CTAG*

Industry Recognized Credentials	Points Available	EMIS Code
Ohio High School Athletic Association - Officiating License	4	CS45
American Red Cross Lifeguarding Certification	4	CR77
Bleeding Control Basics	1	CP05
CPR/First Aid	1	CB62
OSHA 10-hour	1	CJ02
Ohio Drivers License	1	CR63

ALLIED HEALTH
Offered at: *Portsmouth High School, Portsmouth West High School, Valley High School, Wheelersburg High School*

Medical Terminology

Course Code: 072150

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 072150

Assessment Code for Subject: EGE0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

ALLIED HEALTH
Offered at: *Portsmouth High School, Wheelersburg High School*

Human Anatomy & Physiology

Course Code: 072040

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
In this course, students will demonstrate knowledge of body systems with emphasis on the interrelationships between structure and physical function. Students will analyze and evaluate how the body systems respond to physical activity, disease, and aging. Students will use data acquisition software to monitor abnormal physiology and body functions (e.g., muscle movement, reflex, respiratory, and voluntary actions). Further, students will analyze descriptive results of abnormal physiology and evaluate clinical consequences.

WebXam Required: Yes

WebXam Testing Code: 072040

Assessment Code for Subject: EFT0

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ Health Occupation Students of America (HOSA)
➢ SkillsUSA

ALLIED HEALTH
Offered at: Portsmouth West High School, Valley High School

Lifespan Development and Medical Interventions

Course Code: 072060

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG, Bilateral with SSU

Course Description
Students gain necessary skills and knowledge to meet the needs of individuals from infancy through the human life cycle in a safe, legal, and ethical manner using the nursing process. Topics include physical, psychological, and cultural variations associated with maturing and aging. Emphasis will be placed on regulatory compliance, patient assessment, patient safety, and medical interventions. Additionally, students use psychomotor nursing skills to assist in day-to-day patient care activities.

WebXam Required: Yes

WebXam Testing Code: 072060

Assessment Code for Subject: EFV0

Industry Credential in lieu of Assessment:
➤ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➤ PC - Pathway Course	➤ JM: Allied Health and Nursing

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➤ Health Occupation Students of America (HOSA)
➤ SkillsUSA

HOSPITALITY & TOURISM - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	**Kim McCray** *Culinary*	kim.mccray@sciototech.org

HOSPITALITY & TOURISM

Program Name: Scioto County CTC Culinary	Instructor: Kim McCray
Career Field: Hospitality & Tourism	Career Pathway: L0 - Culinary

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
330000	Hospitality Fundamentals *VT: 245 hours* **11th Grade**	CTCF002	Introduction to Hospitality & Tourism	2	*Statewide Articulation - CTAG*
330025	Catering & Banquet Service Operations *VT: 245 hours* **11th Grade**				
330100	*Fundamentals of Food Production VT: 245 hours* **12th Grade**	CTCF005	Basic Food Production	4	*Statewide Articulation - CTAG*
330110	*Dining Room Service & Operations VT: 245 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
RISE Up Customer Service and Sales	6	CG59
National Restaurant Association - ServSafe	3	CH75
ServSafe - Manager	3	CQ79
ServSafe - Person in Charge	2	CQ80
ServSafe - Allergens	1	CQ77
ServSafe - Food Handler	1	CQ78
ServSafe - Workplace	1	CQ81
OSHA 10-hour	1	CJ02
CPR/First Aid	1	CB62
Telephone Doctor	1	CG64
Ohio Drivers License	1	CR63

CULINARY ARTS

Hospitality Fundamentals - 11th Grade - Course 1

Course Code: 330000

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description

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.

WebXam Required: Yes

WebXam Testing Code: 330000

Assessment Code for Subject: PKZ0

Industry Credential in lieu of Assessment:
➤ ProState Certificate of Achievement

Workforce Development Type:	Program of Concentration:
➤ PC - Pathway Course	➤ L0: Culinary Arts

Non-Traditional Concentrators: Neutral

Career Technical Student Organizations (CTSOs) Options:
➤ Family, Career and Community Leaders of America

CULINARY ARTS
Catering and Banquet Services - 11th Grade - Course 2
Course Code: 330025
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 330025
Assessment Code for Subject: PLB5
Industry Credential in lieu of Assessment: ➢ ProState Certificate of Achievement

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ L0: Culinary Arts

Non-Traditional Concentrators: Neutral
Career Technical Student Organizations (CTSOs) Options: ➢ Family, Career and Community Leaders of America

CULINARY ARTS
Fundamentals of Food Production - 12th Grade - Course 3
Course Code: 330100
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School, CTAG

Course Description
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.

WebXam Required: Yes
WebXam Testing Code: 330100
Assessment Code for Subject: PLK0
Industry Credential in lieu of Assessment: ➢ ProState Certificate of Achievement

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ L0: Culinary Arts

Non-Traditional Concentrators: Neutral
Career Technical Student Organizations (CTSOs) Options: ➢ Family, Career and Community Leaders of America

CULINARY ARTS
Dining Room Service and Operations - 12th Grade - Course 4
Course Code: 330110
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description

Students will apply strategies and techniques to identify and meet dining guest needs. They will provide table and beverage service; maintain eating areas, meeting spaces and serving stations; manage online reservations and orders; and monitor table turns, wait lines and table assignments. Nutritional analysis, types of table service, safety and sanitation, cultural intelligence, employability skills and communications will also be addressed.

WebXam Required: Yes
WebXam Testing Code: 330110
Assessment Code for Subject: PLL0
Industry Credential in lieu of Assessment: ➢ ProState Certificate of Achievement

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ L0: Culinary Arts

Non-Traditional Concentrators: Neutral
Career Technical Student Organizations (CTSOs) Options: ➢ Family, Career and Community Leaders of America

HUMAN SERVICES - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	**Angela McGlone** *Cosmetology*	angela.mcglone@sciototech.org
Scioto County CTC - Main Campus	**Mariane Reffitt & Chet Thayer** *Project LIFE/JTC*	mariane.reffitt@sciototech.org raymond.thayer@sciototech.org

HUMAN SERVICES					
Program Name: Scioto County CTC Cosmetology			**Instructor:** Angela McGlone		
Career Field: Human Services			**Career Pathway:** M1 - Cosmetology		
Courses for 2024/2025 CTAG credit is earned by passage of course and proficiency on WebXam. Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.					
EMIS Course Codes	**CTE-26 Course Name**	**College Course Code**	**College Course Name**	**College Credits**	**Additional Information**
174115	Microbiology & Infection Control *VT: 245 hours* **11th Grade**				
174120	Trichology *VT: 245 hours* **11th Grade**				
174125	Fundamentals of Hair Cutting & Styling *VT: 245 hours* **12th Grade**				
174135	Fundamentals of Chemical Services *VT: 245 hours* **12th Grade**				
Industry Recognized Credentials			**Points Available**		**EMIS Code**
Ohio State Board of Cosmetology - License of Cosmetology (can replace all WebXams once earned)			**12**		CJ29
Ohio State Board of Cosmetology - Braiding			**3**		CS46
Ohio State Board of Cosmetology - Make-Up Artistry			**3**		CS47
Ohio State Board of Cosmetology - Shampooing			**3**		CS48
Ohio State Board of Cosmetology - Threading			**3**		CS49
OSHA 10-hour			**1**		CJ02
Ohio Drivers License			**1**		CR63

COSMETOLOGY

Microbiology and Infection Control - 11th Grade - Course 1

Course Code: 174115

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
Students will learn basic bacteriology, infection control, and salon safety practices. Students will be able to recognize infectious disorders, and contagious diseases and learn the dispensary requirements, product storage, and requirements of the laws and rules, which regulate the cosmetology industry in Ohio.

WebXam Required: Yes

WebXam Testing Code: 174115

Assessment Code for Subject: LKA5

Industry Credential in lieu of Assessment:
➢ Ohio State Board of Cosmetology - License of Cosmetology

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ M1: Cosmetology

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA

COSMETOLOGY
Trichology- 11th Grade - Course 2
Course Code: 174120
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description
Students will learn the anatomy of the head and scalp, structure of the hair and various techniques and procedures for analyzing hair, scalp disorders and diseases. Students will be able to determine hair porosity, elasticity, density, texture and growth patterns as well as conduct chemical tests for treated hair and ability to recommend corrective scalp treatment.

WebXam Required: Yes
WebXam Testing Code: 174120
Assessment Code for Subject: LKB0
Industry Credential in lieu of Assessment: ➤ Ohio State Board of Cosmetology - License of Cosmetology

Workforce Development Type: ➤ PC - Pathway Course	**Program of Concentration:** ➤ M1: Cosmetology

Non-Traditional Concentrators: Male
Career Technical Student Organizations (CTSOs) Options: ➤ SkillsUSA

COSMETOLOGY
Fundamentals of Hair Cutting and Styling - 12th Grade - Course 3
Course Code: 174125
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 174125
Assessment Code for Subject: LKB5
Industry Credential in lieu of Assessment: ➢ Ohio State Board of Cosmetology - License of Cosmetology

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ M1: Cosmetology

Non-Traditional Concentrators: Male
Career Technical Student Organizations (CTSOs) Options: ➢ SkillsUSA

COSMETOLOGY

Fundamentals of Chemical Services - 12th Grade - Course 4

Course Code: 174135

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 174135

Assessment Code for Subject: LKC5

Industry Credential in lieu of Assessment:
➢ Ohio State Board of Cosmetology - License of Cosmetology

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ M1: Cosmetology

Non-Traditional Concentrators: Male

Career Technical Student Organizations (CTSOs) Options:
➢ SkillsUSA

HUMAN SERVICES

Program Name: Scioto County CTC JTC/Project LIFE	Instructor: Mariane Reffitt/Chet Thayer
Career Field: Human Services	Career Pathway: M3 - Job Training Coordination

Courses for 2023/2024		
EMIS Course Code	**Course Title**	**Curriculum/Hours**
990405	*Introduction to Job Training*	VT: 490 hours
990410	*Fundamentals in Job Training*	VT: 490 hours
Industry Recognized Credentials	**Points Available**	**EMIS Code**
RISE Up Customer Service and Sales	**6**	CG59
CPR/First Aid	**1**	CB62
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

JOB TRAINING COORDINATING
Introduction to Job Training - Course 1
Course Code: 990405
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 240-1080
Credit Available: High School

Course Description
Introduction to Job Training is the initial course in the Job Training Coordination pathway. This course should be the first course taken during enrollment in the program. Students will only complete the Introduction to Job Training course once during their enrollment in the JTC pathway.

WebXam Required: No
WebXam Testing Code: N/A
Assessment Code for Subject: N/A
Industry Credential in lieu of Assessment: ➢ N/A

Workforce Development Type: ➢ JT - Job Training Workforce Development Course	**Program of Concentration:** ➢ M3: Job Training Coordinating

Non-Traditional Concentrators: Neutral
Career Technical Student Organizations (CTSOs) Options: ➢ Any CTSO

JOB TRAINING COORDINATING

Fundamentals in Job Training - Course 2

Course Code: 990410

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 240-1080

Credit Available: High School

Course Description
Fundamentals in Job Training is the second course in the Job Training Coordination pathway. This course is taken in the second and all subsequent years that a student is enrolled the program. Students can be re-enrolled in Fundamentals in Job Training multiple times from year to year as is appropriate to their educational and transition needs.

WebXam Required: No

WebXam Testing Code: N/A

Assessment Code for Subject: N/A

Industry Credential in lieu of Assessment:
➢ N/A

Workforce Development Type: ➢ JT - Job Training Workforce Development Course	**Program of Concentration:** ➢ M3: Job Training Coordinating

Non-Traditional Concentrators: Neutral

Career Technical Student Organizations (CTSOs) Options:
➢ Any CTSO

INFORMATION TECHNOLOGY - 2024/2025

Scioto County Career Technical Center		
Location	Instructor	Contact Info
Scioto County CTC - Main Campus	**Richard Calver** *Cybersecurity*	richard.calver@sciototech.org

INFORMATION TECHNOLOGY

Program Name:	Instructor:
Scioto County CTC Cybersecurity	Richard Calver

Career Field: Information Technology	Career Pathway: N4 - Cybersecurity

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
146005	Cybersecurity *VT: 245 hours* **11th Grade**				
145050	Network Security *VT: 245 hours* **11th Grade**	CTIT015	CompTIA Security+	3	*Statewide Articulation - CTAG*
		CTIT006	Introduction to User Support	3	*Statewide Articulation - CTAG*
146010	Cybersecurity Defense & Reinforcement *VT: 245 hours* **12th Grade**	CTCYBR001	Cybersecurity Fundamentals	3	*Statewide Articulation - CTAG*
146015	Cybersecurity Testing & Response *VT: 245 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
CompTIA IT Fundamentals	6	CB45
Microsoft Office Specialist Excel Associate 2019	3	CP47
Microsoft Office Specialist Word Associate 2019	3	CP51
CPR/First Aid	1	CB62
OSHA 10-hour	1	CJ02
Ohio Drivers License	1	CR63

CYBERSECURITY

Cybersecurity - 11th Grade - Course 1

Course Code: 146005

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 146005

Assessment Code for Subject: JWF5

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ N4: Cybersecurity

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ Business Professionals of America (BPA)
➢ SkillsUSA

CYBERSECURITY

Cybersecurity - 11th Grade - Course 1

Course Code: 146005

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 146005

Assessment Code for Subject: JWF5

Industry Credential in lieu of Assessment:
➤ None for this academic year

Workforce Development Type:	Program of Concentration:
➤ PC - Pathway Course	➤ N4: Cybersecurity

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➤ Business Professionals of America (BPA)
➤ SkillsUSA

CYBERSECURITY

Network Security - 11th Grade - Course 2

Course Code: 145050

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
This course will address securing networks and operating systems. Students will learn to secure network communications, computer hardware, and network software. Topics included are network security theory, cryptography, security architecture, firewalls, VPNs, IP Security, and methods of protection.

WebXam Required: Yes

WebXam Testing Code: 145050

Assessment Code for Subject: JSC0

Industry Credential in lieu of Assessment:
➢ CB44 Comptia Security+ <u>or</u> CB23 Cisco Certified Network Associate Security

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ N4: Cybersecurity

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ Business Professionals of America (BPA)
➢ SkillsUSA

CYBERSECURITY

Cybersecurity Defense and Reinforcement - 12th Grade - Course 3

Course Code: 146010

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School, CTAG

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 146010

Assessment Code for Subject: JWG0

Industry Credential in lieu of Assessment:
➢ None available for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ N4: Cybersecurity

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ Business Professionals of America (BPA)
➢ SkillsUSA

CYBERSECURITY

Cybersecurity Testing and Response - 12th Grade - Course 4

Course Code: 146015

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

Credit Available: High School

Course Description
Students will apply the skills of systematic testing and planned response to mitigate security concerns in information technology systems. They will describe the need for security, identify and explain security risks, and implement security safeguards. Students will manage threats, deploy countermeasures, and establish strategies to protect business information using risk and incident management.

WebXam Required: Yes

WebXam Testing Code: 146015

Assessment Code for Subject: JWG0

Industry Credential in lieu of Assessment:
➢ None available for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ N4: Cybersecurity

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs) Options:
➢ Business Professionals of America (BPA)
➢ SkillsUSA

LAW & PUBLIC SAFETY - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	**Darin Cox** *Criminal Justice*	darin.cox@sciototech.org

LAW & PUBLIC SAFETY

Program Name:	Instructor:
Scioto County CTC Criminal Justice	Darin Cox

Career Field:	Career Pathway:
Law & Public Safety	P1 - Criminal Justice

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
170911	American Criminal Justice System *VT: 245 hours* **11th Grade**	CTCJ001	Introduction to Criminal Justice	3	*Statewide Articulation - CTAG*
		SOCI1201	**Shawnee State University:** Introduction to Criminal Justice	3	*Bilateral Agreement with SSU*
170913	Police Work & Public Safety *VT: 245 hours* **11th Grade**	CTCJ001	Introduction to Criminal Justice	3	*Statewide Articulation - CTAG*
		SOCI2620	**Shawnee State University:** Policing	3	*Bilateral Agreement with SSU*
170915	The Correctional System & Services *VT: 245 hours* **12th Grade**	CTCJ001	Introduction to Criminal Justice	3	*Statewide Articulation - CTAG*
		SOCI3620	**Shawnee State University:** Corrections	3	*Bilateral Agreement with SSU*
170914	Investigations & Forensics in Criminal Investigations *VT: 245 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
ORDC Correctional Officer - Provisional	**12**	CP28
National Incident Management System 100	**4**	CH84
National Incident Management System 700	**4**	CH85
Bleeding Control Basic 1.0 Course	**1**	CP05
ASP Baton Certification	**1**	CA79
Taser Certification	**1**	CP01
OC/Pepper Spray	**1**	CJ36
CPR/First Aid	**1**	CB62
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

CRIMINAL JUSTICE
American Criminal Justice System - 11th Grade - Course 1
Course Code: 170911
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School, CTAG, Bilateral with SSU

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 170911
Assessment Code for Subject: KUY1
Industry Credential in lieu of Assessment: ➤ None available for this academic year

Workforce Development Type: ➤ PC - Pathway Course	**Program of Concentration:** ➤ P1: Criminal Justice

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs) Options: ➤ SkillsUSA

CRIMINAL JUSTICE
Police Work and Public Safety - 11th Grade - Course 2
Course Code: 170913
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School, CTAG, Bilateral with SSU

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 170913
Assessment Code for Subject: KUY3
Industry Credential in lieu of Assessment: ➢ None available for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ P1: Criminal Justice

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs) Options: ➢ SkillsUSA

CRIMINAL JUSTICE
Police Work and Public Safety - 11th Grade - Course 3
Course Code: 170913
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School, CTAG, Bilateral with SSU

Course Description

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.

WebXam Required: Yes
WebXam Testing Code: 170913
Assessment Code for Subject: KUY3
Industry Credential in lieu of Assessment: ➢ None available for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ P1: Criminal Justice

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs) Options: ➢ SkillsUSA

CRIMINAL JUSTICE
Investigations and Forensics in Criminal Investigations - 12th Grade - Course 4
Course Code: 170914
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
Credit Available: High School

Course Description
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.

WebXam Required: Yes
WebXam Testing Code: 170914
Assessment Code for Subject: KUY4
Industry Credential in lieu of Assessment: ➢ None available for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ P1: Criminal Justice

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs) Options: ➢ SkillsUSA

MANUFACTURING - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	**Pete Lambert** *Welding*	pete.lambert@sciototech.org
Scioto County CTC - Main Campus	**Chuck Timberlake** *Welding*	chuck.timberlake@sciototech.org

MANUFACTURING

Program Name: Scioto County CTC Welding	Instructor: Pete Lambert & Chuck Timberlake
Career Field: Manufacturing	Career Pathway: R7 - Manufacturing Operations

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
176000	Gas Metal Arc Welding *VT: 245 hours* **11th Grade**	MFG10203	**University of Rio Grande:** GMAW Processes	3	*Bilateral Agreement with URG*
176001	Shielded Metal Arc Welding *VT: 245 hours* **11th Grade**	MFG10103	**University of Rio Grande:** Basic Welding	3	*Bilateral Agreement with URG*
176002	*Flux Core Arc Welding VT: 245 hours* **12th Grade**				
176003	*Gas Tungsten Arc Welding VT: 245 hours* **12th Grade**	MFG20203	**University of Rio Grande:** GTAW Processes	3	*Bilateral Agreement with URG*
Earning proficient overall for WebXam and a C or better for each course		ESSH1170	**Columbus State Community College:** OSHA 10 hour	1	*Bilateral Agreement with CSCC*
		SKTR1180	**Columbus State Community College:** Welding: Introduction to Stick	2	
		SKTR1380	**Columbus State Community College:** Welding: Introduction to MIG	2	

Industry Recognized Credentials	Points Available	EMIS Code
American Welding Society - Welding Qualification (FCAW)	**9**	CP73
American Welding Society - Welding Qualification (GMAW) *(Eligible for ITAG college credit)*	**9**	CP74
American Welding Society - Welding Qualification (GTAW) *(Eligible for ITAG college credit)*	**9**	CP75
American Welding Society - Welding Qualification (SMAW) *(Eligible for ITAG college credit)*	**9**	CP76
CPR/First Aid	**1**	CB62
Forklift Operation	**1**	CJ93
Aerial Manlift	**1**	CJ94
OSHA 10-hour	**1**	CJ02
Ohio Drivers License	**1**	CR63

Gas Metal Arc Welding

Course Code: 176000

| **Curriculum Type:** VT (high school) |

| **Instructional Hours Required:** <u>VT</u>: 120-280 |

| **CTAG Available:** Yes |

Course Description
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.

WebXam Required: Yes

| **WebXam Testing Code:** 176000 |

| **Assessment Code for Subject:** LUG0 |

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ R7: Manufacturing Operations

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

Shielded Metal Arc Welding

Course Code: 176001

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 176001

Assessment Code for Subject: LUG1

Industry Credential in lieu of Assessment:
➢ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ R7: Manufacturing Operations

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

Flux Cored Arc Welding
Course Code: 176002
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
CTAG Available: Yes
Course Description Students will be able to use the Flux Cored Arc Welding process (FCAW) 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 cored electrode wire 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.
WebXam Required: Yes
WebXam Testing Code: 176002
Assessment Code for Subject: LUG2
Industry Credential in lieu of Assessment: ➢ None for this academic year

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ R7: Manufacturing Operations

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➢ SkillsUSA

Gas Tungsten Arc Welding

Course Code: 176003

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 176003

Assessment Code for Subject: LUG3

Industry Credential in lieu of Assessment:
➤ None for this academic year

Workforce Development Type:	**Program of Concentration:**
➤ PC - Pathway Course	➤ R7: Manufacturing Operations

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➤ SkillsUSA

TRANSPORTATION - 2024/2025

Scioto County Career Technical Center		
Location	*Instructor*	*Contact Info*
Scioto County CTC - Main Campus	**Eli Riggs** *Auto Body*	eli.riggs@sciototech.org
Scioto County CTC - Main Campus	**Eric Scalf** *Auto Technology*	eric.scalf@sciototech.org

TRANSPORTATION

Program Name: Scioto County CTC Auto Body	**Instructor:** Eli Riggs
Career Field: Transportation	**Career Pathway:** T9 - Ground Transportation

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
177012	Collision Painting & Refinishing *VT: 245 hours* **11th Grade**				
177030	Automotive Braking Systems *VT: 245 hours* **11th Grade**				
177009	Collision Electrical & Mechanical Systems *VT: 245 hours* **12th Grade**				
177010	Collision Structural Inspection & Repair *VT: 245 hours* **12th Grade**				

Industry Recognized Credentials		Points Available	EMIS Code
ICAR Pro Level 1 Refinishing Technician Certification **(can replace WebXam 177012)**		**12**	CE16
ICAR Collision Repair		**12**	CE13
ICAR Pro Level Non-structural Technician		**12**	CR43
ASE Student Certification: Collision, Mechanical, Electrical **(can replace WebXam 177009)**		**4**	CH56

ASE Student Certification: Automotive Brakes **(can replace WebXam 177030)**	**4**	CH49
ASE Student Certification: Collision Painting & Refinishing **(can replace WebXam 177012)**	**4**	CH58
ASE Student Certification: Structural Analysis & Damage Repair **(can replace WebXam 177010)**	**4**	CH59
OSHA 10-hour	**1**	CJ02
Forklift Operation	**1**	CJ93
CPR/First Aid	**1**	CB62
3M: Head, Eye, and Face Protection	**1**	CP59
3M: Hearing and Noise Protection	**1**	CP60
3M: Respiratory Protection	**1**	CP61
Ohio Drivers License	**1**	CR63

Collision Painting and Refinishing

Course Code: 177012

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
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 the condition of spray guns and related equipment. Additionally, students will observe safety precautions when using hazardous materials.

WebXam Required: Yes

WebXam Testing Code: 177012

Assessment Code for Subject: LYS2

Industry Credential in lieu of Assessment:
➢ CH-58 ASE Student Certification Painting and Refinishing

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ T9: Ground Transportation

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

Automotive Braking Systems
Course Code: 177030
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
CTAG Available: Yes

Course Description
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 anti-lock brake systems components.

WebXam Required: Yes
WebXam Testing Code: 177030
Assessment Code for Subject: LYU0
Industry Credential in lieu of Assessment: ➢ CH-49 ASE Student Certification Automotive Brakes

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ T9: Ground Transportation

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➢ SkillsUSA

Collision Electrical and Mechanical Systems

Course Code: 177009

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
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 anti-lock brake systems components.

WebXam Required: Yes

WebXam Testing Code: 177009

Assessment Code for Subject: LYR9

Industry Credential in lieu of Assessment:
➢ CH-56 ASE Student Certification Collision Mechanical and Electrical

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ T9: Ground Transportation

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

Collision Structural Inspection and Repair

Course Code: 177010

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
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.

WebXam Required: Yes

WebXam Testing Code: 177010

Assessment Code for Subject: LYS0

Industry Credential in lieu of Assessment:
➢ CH-59 ASE Student Certification Collision Structural Analysis and Damage Repair

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ T9: Ground Transportation

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

TRANSPORTATION SYSTEMS

Program Name: Scioto County CTC Auto Tech	**Instructor:** Eric Scalf
Career Field: Transportation Systems	**Career Pathway:** T9 - Ground Transportation

Courses for 2024/2025
CTAG credit is earned by passage of course and proficiency on WebXam.
Bilateral credit is earned by earning a C or better in the course and proficiency on WebXam.

EMIS Course Codes	CTE-26 Course Name	College Course Code	College Course Name	College Credits	Additional Information
177000	Ground Transportation Maintenance *VT: 245 hours* **11th Grade**				
177031	Automotive Steering & Suspension Systems *VT: 245 hours* **11th Grade**				
177002	Ground Transportation: Electrical/ Electronics *VT: 245 hours* **12th Grade**				
177006	Automotive Engine Performance *VT: 245 hours* **12th Grade**				

Industry Recognized Credentials	Points Available	EMIS Code
ASE Student Certification: Automotive Automatic Transmission	**4**	CH48
ASE Student Certification: Automotive Brakes (can replace WebXam 177030)	**4**	CH49
ASE Student Certification: Automotive Electronic/Electrical Systems (can replace WebXam 177002)	**4**	CH50
ASE Student Certification: Automotive Engine Performance (can replace WebXam 177006)	**4**	CH51

ASE Student Certification: Automotive Engine Repair	**4**	CH52
ASE Student Certification: Automotive Heating & Air Conditioning **(can replace WebXam 177030)**	**4**	CH53
ASE Student Certification: Automotive Maintenance & Light Repair **(can replace WebXam 177000)**	**4**	CH54
ASE Student Certification: Automotive Manual Drive Train & Axles	**4**	CH55
ASE Student Certification: Automotive Suspension & Steering **(can replace WebXam 177031)**	**4**	CH63
OSHA 10-hour	**1**	CJ02
Forklift Operation	**1**	CJ93
CPR/First Aid	**1**	CB62
Ohio Drivers License	**1**	CR63

Ground Transportation Maintenance

Course Code: 177000

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
In this first course, students will apply skills needed to inspect and perform general service on vehicles. Students will research applicable service information and technical service bulletins and perform maintenance on vehicles. Students will inspect and service the engine, drive train, suspension, steering, electrical and braking systems. Students will perform ignition maintenance including spark plug/glow plug and ignition wire and coil pack replacement. Additionally, students change fluids, filters and inspect vehicles for leaks and fluid condition.

WebXam Required: Yes

WebXam Testing Code: 177000

Assessment Code for Subject: LYR0

Industry Credential in lieu of Assessment:
➢ CH-58 ASE Student Certification Automotive Maintenance and Light Repair

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ T9: Ground Transportation

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

Automotive Steering and Suspension
Course Code: 177031
Curriculum Type: VT (high school)
Instructional Hours Required: <u>VT</u>: 120-280
CTAG Available: Yes

Course Description
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.

WebXam Required: Yes
WebXam Testing Code: 177031
Assessment Code for Subject: LYU1
Industry Credential in lieu of Assessment: ➢ CH-58 ASE Student Certification Automotive Suspension and Steering

Workforce Development Type: ➢ PC - Pathway Course	**Program of Concentration:** ➢ T9: Ground Transportation

Non-Traditional Concentrators: Female
Career Technical Student Organizations (CTSOs): ➢ SkillsUSA

Ground Transportation: Electrical/Electronics

Course Code: 177002

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
Students 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.

WebXam Required: Yes

WebXam Testing Code: 177002

Assessment Code for Subject: LYR2

Industry Credential in lieu of Assessment:
➢ CH-58 ASE Student Certification Automotive Electronic/Electrical Systems

Workforce Development Type:	Program of Concentration:
➢ PC - Pathway Course	➢ T9: Ground Transportation

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA

Automotive Engine Performance

Course Code: 177006

Curriculum Type: VT (high school)

Instructional Hours Required: <u>VT</u>: 120-280

CTAG Available: Yes

Course Description
Students will research vehicle service histories using model specific service bulletins. Students will test and diagnose engine performance in fuel, air induction and exhaust systems using advanced testing procedures. Topics include computerized engine controls including retrieving and recording diagnostic trouble codes using On Board Diagnostics (OBD). Additionally, students will diagnose driveability and emissions problems resulting from malfunctions of interrelated systems.

WebXam Required: Yes

WebXam Testing Code: 177006

Assessment Code for Subject: LYR6

Industry Credential in lieu of Assessment:
➢ CH-58 ASE Student Certification Automotive Engine Performance

Workforce Development Type:	**Program of Concentration:**
➢ PC - Pathway Course	➢ T9: Ground Transportation

Non-Traditional Concentrators: Female

Career Technical Student Organizations (CTSOs):
➢ SkillsUSA