

Requirements for Related Instruction

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Purpose of Related Instruction

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Cluster/ Occupational Area	YA Work Role with keywords for Instruction	High School Course Examples (May include Dual Credit)	College Course Examples (Dual Enrollment, SCN or ECCP)	Non-CTE Allowable College Level Courses	Destination Career Academy Examples
Agriculture, Food and Natural Resources					
Agricultural Mechanic Technician	Tools, Machines, Part, Engines, Hydraulics, Electronics, Welding	Small Engines, Welding	Welding, Four Cycle Small Engines, Maintenance and Light Repair		Basic Equipment Fundamentals, Mobile Equipment Maintenance
Animal Fundamentals,	Animal care &	Animal Science,	Animal Science	Introduction to	Animal Science I

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Animal/Herd Dairy Grazier Small Animal Veterinarian Technician	Management including feeding, health, operations	Large or Small Animal Science, Veterinary Science, Biotechnology, Agribusiness	Fundamentals	Psychology, College Math(Herd & Small Animal) Spanish	& II, Vet Science, Ag Biotechnology
Plant Fundamentals Arborist Crops Floral/Greenhouse Landscaping	Care and understanding of plants as they relate to industries: crops, landscaping, floral, and greenhouse	Agronomy and Soil Science, Horticulture, Plant Science, Greenhouse Management, Landscape Design and Management, Sustainable Agriculture	Intro to Horticulture, Intro to Soils, Organic Soils, Nutrients & Composting, Hydroponic Growing & Systems, Crops and Soil		Green Design & Technology
Environmental Systems/Water Resources	Protection, improvement, and sustainability of water resources	Natural Resource Management, Environmental Science, Wildlife Management, Natural Resources and Conservation	Environmental Science, Intro to Fisheries, Forestry, & Wildlife Resources,	Environmental Science, Biology, College Math	Wildlife Management 1 & 2, Forestry & Natural Resources

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Architecture and Construction					
Architecture Drafting and Planning	Read, edit or create architectural drawings of commercial or residential design	PLTW Engineering Courses (IED, POE, or CED), Architecture, Intro to Construction	Blueprint Reading, SolidWorks, Revit, AutoCAD, Intro to Building Instruction, Construction Math		Basic Grade & Construction Math
Carpentry		Home Improvement,	Blueprint Reading,		Basic Equipment

Fundamentals or Masonry/Concrete Fundamentals	Construction safety, reading blueprints, fundamental construction skills and use of equipment	Woods/ Woodworking, Intro to Construction, Home Maintenance, Building/ Construction	OSHA10, Intro to Building Instruction, Construction Fundamentals, Intro to Construction Management, Understanding Construction Drawings		Fundamentals
Electrical Fundamentals		Home Improvement, Intro to Construction, Home Maintenance, Building/ Construction	Carpentry plus Residential Wiring or AC/DC		Basic Equipment Fundamentals
Heavy Equipment Operator & Operating Engineer			Blueprint Reading, Welding, Maintenance & Light Repair, Engine Repair, Math for Machine Trades		Basic Equipment Fundamentals, Mobile Equipment Maintenance, Basic Grade & Construction Math, CDL Prep
Mechanical/HVAC Fundamentals or Plumber/Sprinkler Fitter Fundamentals			Carpentry plus Welding Intro, Intro to Safety Weld/Metal Fab, GMAW, SMAW, GTAW Techniques, Weld Symbols and Print Reading, Welding Hand and Power Tools	Technical College Math	Basic Equipment Fundamentals
Gas Distribution Technician			Installation, repair and maintenance of natural gas distribution		Basic Equipment Fundamentals
Utilities Electrical Technician	Routine service work on utility systems		Basic Electricity	Tech College Math	Basic Equipment Fundamentals

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Arts, Audio Visual Technology and Communication					
Graphic Design	Design, editing and related software	Adobe Courses (Illustrator, Photoshop, InDesign), Marketing, Design Fundamentals, Vector Illustration, Intro to Graphic Communication			Digital Photography, Web Design, Adobe InDesign, Adobe Photoshop
Media Broadcast Technician	Set up and use of AV equipment	Web/Multimedesign, Photography, Video Production, Web Development			

Pre-Press Operator	Design and printing software, equipment, color and printing processes	Adobe Courses (Illustrator, Photoshop, InDesign), Photography		Adobe InDesign, Adobe Photoshop
Post-Press Operator		Digital Printing, Printing Methods, Commercial Art		Digital Photography

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Business Administration					
Administrative Professional	Organizational and people skills using information processing and office technologies	Microsoft Office, Introduction to Business, Accounting		Written Communication	Microsoft Office, Accounting, Intro to Business, Business Concepts, Accounting
Human Resource	Support HR role of	Above course plus Marketing Principles, Business		Written	

Professional	hiring, benefit administration, payroll and general employee relations	Law, or Human Resource Management	Communication, Oral Communication	
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Education					
Early Childhood Education	Focus on safe and healthy environment, building relationships, understanding development	Child Development, ECE: Health, Safety, & Nutrition, ECE: Foundations of Early Childhood Education, ECE: Social Studies, Art, & Music, ECE :Infant and Toddler Development		Intro to Psychology, Sociology	

<p>School Age Education</p>	<p>Understanding development and learning styles, implementing, instructional strategies, and building relationships</p>	<p>Child Development, Intro to Educational Practices/Foundations of Education, Child and Adolescent Development, Technology in Education, Culturally Responsive Teaching and Learning, Intro to Educational Practices</p>	<p>Intro to Psychology, Sociology</p>	
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Finance					
Accounting, Banking, and Insurance	Understanding money and risk, bookkeeping/acco unting functions, customer service	Personal Financial Literacy/Financial Planning, Accounting, Microsoft Office			Microsoft Office, Accounting

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Health Science					
Dental Assistant	Assist dentist with dental procedures, and prepare instruments	Med Term, Anatomy & Physiology	Microbiology, Intro to Biochemistry		Anatomy and Physiology, Medical Terminology, Health Sciences 1 & 2
Dietary Aide	Assist with meal planning and	Nutrition, Contemporary	Nursing Assistant		Health Sciences 1 & 2

	preparation, serve food and aid clients, including safety	Healthcare Practices		
Medical Assistant, Medical Office	Assist with administrative and clinical (assistant) duties in physician's office, including lab techniques	Contemporary Healthcare Practices, Digital Literacy for Healthcare, Medical Terminology, Microsoft Office, Anatomy and Physiology		Anatomy and Physiology, Medical Terminology, Health Sciences 1 & 2
Medical Imaging	Assist with procedures, inventory, and patient support for radiologic procedures	Contemporary Healthcare Practices, Digital Literacy for Healthcare, Medical Terminology, Nursing Assistant, Anatomy and Physiology		Anatomy and Physiology, Medical Terminology, Health Sciences 1 & 2
Medical Laboratory Assistant, Phlebotomist, Pharmacy Technician	Work with either lab tests collection, transport, processing, (phlebotomist) or draws, transfusions, etc (lab assistant) or measure, mix, count, label and record prescriptions (pharmacy technician)	Contemporary Healthcare Practices, Digital Literacy for Healthcare, Medical Terminology, Basic Lab Skills, Microbiology		Medical Terminology, Pharmacy Technician Certification Course, Biotechnology
Nursing Assistant, Resident Aide	Provide basic care and help patients with activities of daily living	Nursing Assistant Required Prior , Contemporary Healthcare Practices, Digital Literacy for Healthcare, Medical Terminology, Anatomy & Physiology		Anatomy and Physiology, Medical Terminology, Health Sciences 1 & 2

Optical Assistant	Helps clients select frames, measure and fit, as well as assist with eye exam setup, cleaning and restocking	Contemporary Healthcare Practices, Digital Literacy for Healthcare		Health Sciences 1 & 2
Physical Therapy Aide	Clean and set up treatment area, move patients, and perform clerical duties, as well as assist in trainings and treatments	Medical Terminology, Anatomy and Physiology		Medical Terminology, Anatomy and Physiology, Sports Medicine

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Hospitality and Tourism					
Food and Beverage	Preparing, presenting, and service food and beverages in restaurants, cafeterias, bakeries, and other	Foods, Culinary Arts, World Cuisine, Nutrition, ProStart, Restaurant Operations	Intro to Food Production, Nutrition for Culinary Arts, Food Service Sanitation, Culinary Fundamentals, Baking Principles/Science of		

	establishments		Baking, Safety and Sanitation		
Lodging, Meetings and Events	Business operations of lodging accommodations and facilities that host meetings, events, conferences and conventions. Planning, promotion and service within each	Intro to Business/Business Principles, Intro to Hospitality, Entrepreneurship, Marketing Principles, Microsoft Office, Tourism & Community Approach			Microsoft Office, Accounting, Intro to Business, Business Concepts, Accounting, Consumer Behavior, Intro to Entrepreneurship

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Information Technology					
IT Essentials, IT Network and Security	IT including desktop, software, and security	PLTW CS Essentials, AP CS Principles, Computer Repair, Microsoft Office, Cybersecurity	IT Cybersecurity: Intro to Networking, Ethical Hacking, Infrastructure Automation, Network Essentials		Intro to Networking, Guide to Computer Management & Networking, Cybersecurity
IT Broadband Technician	Installations, troubleshooting,		Broadband Installation, Broadband Support and		Intro to Networking, Guide to Computer

	repairs and Maintenance of telecommunications		Repair, Device Repair and Maintenance		Management & Networking
IT Software and Application Development	Development of software and applications	Game Design, AP CS Principles, AP CS A	Computer Programming (JAVA, C+), Website Coding, Basic Programming for IT, HTML, WordPress, Data Access for Programmers, Programming Intro		Intro to Computer Science, AP Computer Science A, JavaScript/Gamification



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Manufacturing					
Assembly and Packaging	Follow processes to prepare good and materials for shipping	Manufacturing Process, Metals, Metal Fabrication, PLTW Engineering (IED, POE, CIM, EDD), 3D CAD, AutoCAD, Solidworks,	Any listed below within Manufacturing		
Manufacturing	Work with tools,				

Processes, Production Operations	equipment, and processes in manufacturing	Welding, Machine Tool Technology, Metal Processing			
Industrial Equipment	Set up, operate, monitor, and control production equipment				
Electromechanics / Mechatronics	Operate, test, maintain, or adjust unmanned, automated, servomechanical or electromechanical equipment	Intro to Mechatronics, Automation and Robotics, PLTW Engineering (IED, POE, CIM, EDD), Intro to Electronics and Electricity, Robotics	Mechatronic Principles, DC/AC Electricity for Mechatronics, Digital Electronics, Programmable Logic Controllers, Tech Math		
Machining	Basic machine operations, processes and tools	PLTW Engineering (IED, POE, CIM, EDD), 3D CAD, AutoCAD, Solidworks, CNC Manufacturing, Mechanical Drawing	Engine Lathe, Milling Machines, Measurement & Benchwork, Technical Math		
Welding	Welding/Fabrication Processes	Welding, Metal Fabrication	Welding Intro, Intro to Safety Weld/Metal Fab, GMAW Techniques, SMAW Techniques, GTAW, Weld Symbols and Print Reading, Welding Hand and Power Tools, Technical College Math		

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Marketing					
Marketing Communications, Marketing Management, Marketing Research/Competi tive Intelligence,	Product development and communications,, sales, customers and consumers, advertising, distribution	Marketing, Principles of Marketing, Social Media Marketing, Project Management, Sports and Entertainment Marketing, Customer Service/Business Communications, Entrepreneurship, Intro to Business			Microsoft Office, Accounting, Intro to Business, Business Concepts, Accounting, Consumer Behavior, Intro to



Merchandising, or Professional Sales				Entrepreneurship
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Science, Technology, Engineering and Math (STEM)					
Bioscience Lab Foundations or BioScience Applications	Use laboratory equipment and tools to perform biological laboratory procedures	Advanced Biology, Chemistry, Statistics, Biotechnology			

<p>Civil Engineering, Engineering Drafting, or Mechanical/Electrical Engineering</p>	<p>Engineering: Civil (development assessment & design of highways, bridges, municipal construction); Drafting (software/drawings of engineering, mathematics, and physics); Mechanical/electrical</p>	<p>Any Engineering PLTW (IED, POE, EDD, etc), Revit, Architectural Drawing, AutoCAD, 2D/3D Modeling</p>	<p>Blueprint Reading, AutoCAD, Physics, CAD Mechanical Drawing, Sketching & the Design Process, CAD & Geometric Constructions, Multiview Projections, Solidworks, Autodesk Inventor</p>		
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Choosing Related Instruction

Please work in collaboration with your YA Coordinator and School Counselor to determine the most appropriate option for related instruction. If there is a course within your high school’s career pathway offerings directly related to the occupational area, that would be ideal especially if it offers dual credit and/or hours related to a potential registered apprenticeship. If there is not something in the district directly related to the occupational area, a related instruction in the same career cluster is also acceptable. Suppose the district does not offer a course within that career cluster. In that case, students can request the option to register for a college course through [Start College Now](#) Program with the local technical college, [Early College Credit](#) with a local university, or from an alternative provider such as [Destinations Career Academy](#). Suggested courses are included below, yet not all-inclusive. Some non-CTE courses are allowable because they are often required at the post-secondary level, but CTE courses that directly support the skills needs of the Youth Apprenticeship are preferred.

Cluster/ Occupational Area	YA Work Role with keywords for Instruction	High School Course Examples (May include Dual Credit)	College Course Examples (Dual Enrollment, SCN or ECCP)	Non-CTE Allowable College Level Courses	Career Destination Academy Examples
Transportation, Distribution and Logistics					
Aviation Maintenance Fundamentals, Avionics Technician, Airframe & Powerplant (A&P)	Aircraft maintenance, industry safety and securing standards	Small Engines, Welding, Electronics, Physics, IT Support (Avionic Technology),	Maintenance and Light Repair		Basic Equipment Fundamentals, Mobile Equipment Maintenance

Technician					
Airport Operations and Management	Management skills, facility maintenance, safety and general airport operations	Intro to Engineering, Intro to Business	Marketing Principles		Intro to Business, Business Concepts, Intro to Entrepreneurship
Automotive Technician or Diesel Technician	Preventative maintenance and repairs of automobiles, light trucks, or diesel vehicles	Small Engines, Welding, Electronics, Auto Mechanics	Maintenance and Light Repair, Four Cycle Small Engines, Engine Performance, Auto Service Operations, Transportation Service Operations, Intro to Diesel Technology, Auto Servicing Welding		Basic Equipment Fundamentals, Mobile Equipment Maintenance, Basic Grade & Construction Math, CDL Prep
Collision Repair	Preventative maintenance and repair of collision vehicles and equipment	Welding, Metal Fabrication, Electronics	Auto Refinishing, Intro to Collision Repair, Intro to Transportation Welding, Auto Servicing Welding		
Distribution and Transportation Operations	Plan, document, and coordinate shipping of goods and services	Introduction to Business, Microsoft Office, Marketing Principles, Professional Communication			Microsoft Office, Intro to Business, Business Concepts, Consumer Behavior
Inventory Management, Planning and Purchasing, Storage and Warehousing, or Supply Chain Assistant	Supply chain management from workflow of production, planning, ordering, loading/unloading, storing, issuing goods as well as tracking, forecasting, and				



CESA6
COLLEGE & CAREER READINESS



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