2024 - 2025

PROGRAM GUIDE FOR:

TRANSPORTATION, DISTRIBUTION AND LOGISTICS CLUSTER



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Transportation, Distribution, and Logistics Cluster Program Guides

The Transportation, Distribution, and Logistics cluster includes specialty areas in automotive technology, aviation technology, collision repair, diesel technology, flight technology, and logistics. The curriculum is based on recognized industry and professional standards found in national organizations and federal regulations.

**Courses highlighted in yellow are shared with other clusters. See "Shared Courses" table on page 4 for additional details.

Career		motive Technology Program	
Pathway Program	(Must teach three cour The Automotive Technology Program is designed to equatransmissions, and manual drive trains. A major focus of to diagnose and repair engine performance related systems	this course is system and component operatio	s regarding safety, engine repair, automatic
Course Number	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations
20104G1011 20104G1012	*Automotive Technology Foundations – Required prerequisite course Automotive Brake, Suspension, and Steering Repair I	Alabama Certified Employee (ACE) ASE Entry-Level – Automobile – Action file Service Technology	Automotive Service Technician Maintenance and Light
20104G1013 20104G1014	Automotive Electrical Components I Automotive Engine Repair and Performance I	Automotive Service Technology ASE Entry-Level – Automobile – Brakes	Repair Technician • Master Automotive Service Technician
20104G1015 20104G1016 20104G1017	Automotive Brake, Suspension, and Steering Repair II Automotive Electrical Components II Automotive Engine Repair and Performance II	ASE Entry-Level – Automobile – Electrical/Electronic Systems	
20997G1003	Career Pathway Project in Transportation, Distribution and Logistics	ASE Entry-Level – Automobile – Engine Performance ASE Entry-Level – Automobile –	
20997G1001 17049G1000	CTE Lab in Transportation, Distribution and Logistics Safety and Health Regulations	Engine Repair • ASE Entry-Level – Automobile –	
with one of the f Steering Repair	otive Technology Foundations may be taken concurrently ollowing courses: Automotive Brake, Suspension, and I; Automotive Electrical Components I; or Automotive and Performance I.	Heating and Air Conditioning • ASE Entry-Level – Automobile – Maintenance and Light Repair • ASE Entry-Level – Automobile – Manual Drive Train and Axles • ASE Entry-Level – Automobile – Suspension and Steering • ASE Entry-Level – Automobile – Automatic Transmission and Transaxle	

Career Pathway Program	Aviation Technology Program (Must teach three courses from this program list within two years) The Aviation Technology Program is designed to prepare students to continue their education in aviation technology at the college level. Students learn various skills including avionics, sheet metal, engine theory and much more.					
Course Number	Career Pathway Program Courses Career Readiness Indicator (CRI) In Demand Occupations					
20114G1001	Airframe Systems – Required corequisite course	Alabama Certified Employee (ACE)	Aircraft Mechanic			
20113G1001	Aircraft Theory of Flight and Operations – Required corequisite course	• FAA Part 107	Avionics Technician Helicopter Mechanic			
20113G1014	Aircraft Electrical Components		- Trenesper Weekame			
20113G1011	Aircraft Engine & Propeller Theory					
20113G1013	Aircraft Instruments and Avionics					
20114G1002	Aircraft Non-Metallic Structures					
20114G1003	Aircraft Sheet Metal Structures					
20113G1012	Aircraft Turbine Engine					
20997G1003	Career Pathway Project in Transportation,					
	Distribution and Logistics					
20997G1001	CTE Lab in Transportation, Distribution and Logistics					
20053G1001	Drone Technology					
17049G1000	Safety and Health Regulations					

	Collision Repair Program			
Career	(Must teach three courses from this program list within two years)			
Pathway	The Collision Repair Program is divided into two divisions, collision repair and refinishing. This program is designed to train students to successfully			
Program	repair accidental damage and to refinish vehicles. Emphasis is placed on safety, plasma arc cutting and oxyacetylene cutting, resistance type spot welding, and metal inert gas (MIG) welding.			
Course	Career Pathway Program Courses	Career Readiness Indicator (CRI)	In Demand Occupations	
Number	Career rathway rrogram Courses	Career Readiness Indicator (CRI)	In Demand Occupations	
20997G1003	Career Pathway Project in Transportation, Distribution and Logistics	Alabama Certified Employee (ACE) ASE Entry-Level – Collision –	Collision Refinishing TechnicianManufacturing Assembly Specialist	
20997G1001	CTE Lab in Transportation, Distribution and Logistics	Mechanical and Electrical Components	Manufacturing Finishing Specialist	
20116G1037	Damage Analysis, Estimating and Customer Service	ASE Entry-Level – Collision – Non-	Nonstructural Repair Technician	
20105G1012	Mechanical and Electrical Components I	structural Analysis and Damage Repair	Structural Repair Technician	
20105G1022	Mechanical and Electrical Components II	ASE Entry-Level – Collision – Painting		
20116G1035	Nonstructural Analysis and Damage Repair	and Refinishing		
20116G1036	Nonstructural Welding, Cutting, and Joining	ASE Entry-Level – Collision –		
20116G1013	Painting and Refinishing I	Structural Analysis and Damage Repair		
20116G1023	Painting and Refinishing II	 ICAR Auto Refinish Platinum 		
17049G1000	Safety and Health Regulations	ICAR Intro to Collision Repair		
20117G1003	Structural Analysis and Damage Repair	ICAR Non-Structural Platinum		

Career Pathway Program	Diesel Technology Program (Must teach three courses from this program list within two years) The Diesel Technology Program is designed for students to gain knowledge and experience related to servicing heavy equipment and medium/heavy duty trucks. Emphasis is placed on diesel engines, electrical, HVAC, hydraulics and preventative maintenance and light repair. All programs are ASE Education Foundation accredited and students are eligible to receive ASE credentials.				
Course Number	Career Pathway Program Courses Career Readiness Indicator (CRI) In Demand Occupations				
20997G1003	Career Pathway Project in Transportation, Distribution and Logistics	Alabama Certified Employee (ACE) ASE Entry-Level – Medium/Heavy	Diesel Truck Technician Generator Service Technician		
20051G1001 20997G1001 20107G1025 20107G1026 20107G1027 20107G1028 17049G1000	Commercial Transportation CTE Lab in Transportation, Distribution and Logistics Diesel Technology A Diesel Technology B Diesel Technology C Diesel Technology D Safety and Health Regulations	Truck – Brakes • ASE Entry-Level – Medium/Heavy Truck – Diesel Engines • ASE Entry-Level – Medium/Heavy Truck – Electrical/Electronic Systems • ASE Entry-Level – Medium/Heavy Truck – Inspection Maintenance and Minor Repair • ASE Entry-Level – Medium/Heavy Truck – Suspension and Steering • Asphalt Roller – Skills for Success • Bulldozer – Skills for Success • CDL A – Skills for Success • CDL B – Skills for Success	Heavy Equipment Technician		

Career Pathway Program	Flight Technology Program (Must teach three courses from this program list within two years) The Flight Technology Program is designed to prepare students with knowledge related to flight operations from preflight to post-flight procedures. This program will include reading and interpreting up-to-date weather reports, record flight paths, support flight operations, and perform calculations for fuel usage.					
Course Number	Career Pathway Program Courses Career Readiness Indicator (CRI) In Demand Occupations					
20114G1001 20113G1001	Airframe Systems – Required corequisite course Aircraft Theory of Flight and Operations – Required corequisite course	Alabama Certified Employee (ACE)FAA Part 107	Certified Flight Instructor Commercial Pilot Airplane Commercial Pilot University			
20113G1013 20997G1003	Aircraft Instruments and Avionics Career Pathway Project in Transportation, Distribution and Logistics	Commercial Pilot Helicopter Instrument Pilot Airplane Rati Instrument Pilot Helicopter Rati				
20997G1001 20053G1001 20053G1012	CTE Lab in Transportation, Distribution and Logistics Drone Technology Flight Communications		Private Pilot Airplane Private Pilot Helicopter			
20053G1012 20053G1011 20053G1013 17049G1000	Flight Navigation Flight Operation Safety and Health Regulations					

Career Pathway	Logistics Program (Must teach three courses from this program list within two years) The Logistics Program is designed to prepare students to equip students with knowledge and skills regarding the process of managing the flow of goods through the sumply chain from the point of origin to the destination. Standards are written for students to investigate trends in green logistics.					
Program	goods through the supply chain from the point of origin to the destination. Standards are written for students to investigate trends in green logistics, various aspects of international environmental laws and requirements, e-commerce applications, and innovative technologies in logistics.					
Course Number	Career Pathway Program Courses Career Readiness Indicator (CRI) In Demand Occupations					
20997G1003	Career Pathway Project in Transportation, Distribution and Logistics	Alabama Certified Employee (ACE) Asphalt Roller – Skills for Success	Freight Agent Procurement Manager			
20051G1001	Commercial Transportation	Bulldozer – Skills for Success	Supply Chain Manager			
20997G1001	CTE Lab in Transportation, Distribution and Logistics	O DL A – Skills for Success O CDL B – Skills for Success				
20053G1001	Drone Technology					
20152G1001	Foundations of Warehousing and Distribution					
20152G1003	Global Logistics and Supply Chain Management					
20152G1002	Industry Specific Logistics Processes	MSSC Certified Logistics Technician				
20001G1010	Introduction to Logistics	Skid Steer – Skills for Success				
17049G1000	Safety and Health Regulations	Skid Steel Skills for Success				

Career Pathway Program	SREB AC Global Logistics and Supply Chain Management Program (Must teach three courses from this program list within two years) Global logistics and supply chain management connects internal functions of an organization with other institutions around the globe. It is vital to understand the roles of logistics and supply chain management in a global economy where individuals and organizations have access to markets across the world. This field requires critical thinking and problem-solving skills to coordinate the movement of goods and services that may be separated by a few feet or thousands of miles. In an industry always striving for optimization, decision-making skills are paramount.					
Course Number	Career Pathway Program Courses Career Readiness Indicator (CRI) Workforce Careers					
20997G1003	Career Pathway Project in Transportation, Distribution and Logistics	MSSC Certified Logistics Associate MSSC Certified Logistics Technician	Logistics Technician Procurement Manager			
20997G1001 20199G1001	CTE Lab in Transportation, Distribution and Logistics SREB Functional Areas in Logistics		Supply Chain Manager			
20199G1002 20001G1002	SREB Global Logistics Management SREB Introduction to Logistics					
20199G1003 17049G1000	SREB Logistics and Supply Chain Management Safety and Health Regulations					
utilizing any of the	must contact SREB for additional information prior to ne course codes listed above, as it does require commitment in a MOU and participation in mandatory training provided					

2024-2025 Subject and Personnel Codes Transportation, Distribution, and Logistics Cluster

Transportation, Distribution, and Logistics Cluster Courses			
Course Number	Course Name	Course Number	Course Name
20113G1014	Aircraft Electrical Components	20107G1028	Diesel Technology D
20113G1011	Aircraft Engine & Propeller Theory	20053G1001	Drone Technology
20113G1013	Aircraft Instruments and Avionics	20053G1012	Flight Communications
20114G1002	Aircraft Non-Metallic Structures	20053G1011	Flight Navigation
20114G1003	Aircraft Sheet Metal Structures	20053G1013	Flight Operation
20113G1001	Aircraft Theory of Flight and Operations – Required	20152G1001	Foundations of Warehousing and Distribution
	corequisite course		
20113G1012	Aircraft Turbine Engine	20152G1003	Global Logistics and Supply Chain Management
20114G1001	Airframe Systems – Required corequisite course	20152G1002	Industry Specific Logistics Processes
20104G1012	Automotive Brake, Suspension, and Steering Repair I	20001G1010	Introduction to Logistics
20104G1013	Automotive Electrical Components I	20105G1012	Mechanical and Electrical Components I
20104G1014	Automotive Engine Repair and Performance I	20105G1022	Mechanical and Electrical Components II
20104G1015	Automotive Brake, Suspension, and Steering Repair II	20116G1035	Nonstructural Analysis and Damage Repair
20104G1016	Automotive Electrical Components II	20116G1036	Non-structural Welding, Cutting, and Joining
20104G1017	Automotive Engine Repair and Performance II	20116G1013	Painting and Refinishing I
20104G1011	Automotive Technology Foundations - Required	20116G1023	Painting and Refinishing II
	prerequisite course		
20051G1001	Commercial Transportation	17049G1000	Safety and Health Regulations
20997G1001	CTE Lab in Transportation, Distribution and Logistics	20199G1001	SREB Functional Areas in Logistics
20997G1003	Career Pathway Project in Transportation,	20199G1002	SREB Global Logistics Management
	Distribution and Logistics		
20116G1037	Damage Analysis, Estimating and Customer Service	20001G1002	SREB Introduction to Logistics
20107G1025	Diesel Technology A	20199G1003	SREB Logistics and Supply Chain Management
20107G1026	Diesel Technology B	20117G1003	Structural Analysis and Damage Repair
20107G1027	Diesel Technology C		

Shared Courses					
Course Number	Course Number Course Name Cluster(s)				
17049G1000	Safety and Health Regulations	Architecture and Construction	2022-2023		
		Health Science			
		Manufacturing			

General Note: Course descriptions and content standards for most courses are located on the Alabama Department of Education website at: https://www.alabamaachieves.org/career-and-technical-education/cte-courses-of-study/.

College and Career Readiness Indicator Course Matrix

Program Name	Automotive Technology	Aviation Technology	Collision Repair	Diesel Technology
Foundation Course(s)	Automotive Technology Foundation	Aircraft Theory of Flight and Operations	Non-structural Analysis and Damage Repair	Diesel Technology A
Concentrator Course(s)	Automotive Brake, Suspension, and Steering Repair I Automotive Electrical Components I Automotive Engine Repair and Components I Automotive Brake, Suspension, and Steering Repair II Automotive Electrical Components II Automotive Engine Repair and Components II Safety and Health Regulations	Aircraft Electrical Components Aircraft Engine & Propeller Theory Aircraft Instruments and Avionics Aircraft Non-Metallic Structures Aircraft Sheet Metal Structures Aircraft Turbine Engine Airframe Systems Drone Technology Safety and Health Regulations	Damage Analysis, Estimating and Customer Service Mechanical and Electrical Components in Collision I Mechanical and Electrical Components in Collision II Nonstructural Welding, Cutting, and Joining Painting and Refinishing I Painting and Refinishing II Safety and Health Regulations Structural Analysis and Damage Repair	Commercial Transportation Diesel Technology B Diesel Technology C Diesel Technology D Safety and Health Regulations
Capstone Course(s)	Career Pathway Project in Transportation, Distribution and Logistics CTE Lab in Transportation, Distribution and Logistics	Career Pathway Project in Transportation, Distribution and Logistics CTE Lab in Transportation, Distribution and Logistics	Career Pathway Project in Transportation, Distribution and Logistics CTE Lab in Transportation, Distribution and Logistics	Career Pathway Project in Transportation, Distribution and Logistics CTE Lab in Transportation, Distribution and Logistics

Program Name	Flight Technology	Logistics	SREB AC Global Logistics and Supply Chain Management Program
Foundation Course(s)	Aircraft Theory of Flight and Operations	Introduction to Logistics	
Concentrator Course(s)	Aircraft Instruments and Avionics Airframe Systems Drone Technology Flight Communications Flight Navigation Flight Operations Safety and Health Regulations	Commercial Transportation Drone Technology Foundations of Warehousing Global Logistics and Supply Chain Management Industry Specific Logistics Processes Safety and Health Regulations	Safety and Health Regulations SREB Functional Areas in Logistics SREB Global Logistics Management SREB Introduction to Logistics SREB Logistics and Supply Chain Management
Capstone Course(s)	Career Pathway Project in Transportation, Distribution and Logistics CTE Lab in Transportation, Distribution and Logistics	Career Pathway Project in Transportation, Distribution and Logistics CTE Lab in Transportation, Distribution and Logistics	Career Pathway Project in Transportation, Distribution and Logistics CTE Lab in Transportation, Distribution and Logistics

To meet the CCR Indicator as a CTE completer, a student must earn three (3.0) credits with the grade of a "C" or higher in CTE courses that are part of an approved CTE program of study. Additional requirements are outlined in Memorandum FY22-2065.

This matrix is intended for general guidance on the CCR completer status and is subject to change. For all CTE programming information, please refer to the CTE Cluster specific Program Guide. It contains a list of approved CTE programs, valid course numbers, required prerequisite courses, approved Career Readiness Indicators (CRIs) and in demand occupations.

^{*}Courses are listed in alphabetical order, not in sequential order.