



Transportation Operations

Career Goal (O*NET Code): Commercial Pilot (53-2012), Flight Attendant (39-6031), Air Traffic Controller (53-2021), Railyard Engineer (53-4013), Switch Repair (49-9097), Ship Engineer (53-5031), Dispatcher (43-5032), Truck Driver (53-3032), Taxi Driver (53-3041), Bus Driver (53-3021), Transportation Manager (Air, Rail, Water, Road, Mass Transit) (11-3071).

Cluster Overview: The Transportation, Distribution, and Logistics Cluster focuses on careers in the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

High School	9th	Core Courses:	English I Algebra I Biology	World Geography Health/PE or Equivalent Languages other than English I	Curricular Experiences: SkillsUSA TSA	Extracurricular Experiences: Student Council	
		Career-Related Electives:	Introduction to Aviation or Introduction to Transportation Service Careers				
	10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II Technology Applications			
		Career-Related Electives:	Aerospace Aviation Technology I* or Technology Systems (Modular Based Lab)* or Introduction to Business or Record Keeping				
	11th	Core Courses:	English III Algebra II Physics	United States History Communication Applications PE or Equivalent	Career Learning Experiences: Career Preparation (Paid/Unpaid) Internships Job Shadowing	Service Learning Experiences: Habitat for Humanity Community Organizations Tutoring/Mentoring Programs	
		Career-Related Electives:	Aerospace Aviation Technology II* or Career Preparation I*				
	12th	Core Courses:	English IV Precalculus Environmental Systems	Government/Economics Fine Arts			
		Career-Related Electives:	Career Preparation II*				
On-the-Job Training						Professional Associations: Air Transport Association Airline Pilots Association Allied Pilots American Boat and Yacht Council American Bus Association American Trucking Association Association of American Railroads Independent Pilots Association Intermodal Association of North America Southwest Chapter of the American Association of Airport Executives United Motorcoach Association	
	Certificates	OSHA CareerSafe		Career Options: Bus Driver Chauffeur Taxi Driver	Truck Driver		
Postsecondary	NOTE: Students may earn all or part of these certificates as part of the high school experience.						
	Associate's Degrees	15 hours General Education Core Cluster Foundation Business Computer Applications (BCIS 1X05) OR Micro-Computer Applications (COSC 1X01) OR Introduction to Computers (ITSC 1X01) OSHA Regulations General Industry (OSHT 2X01) OR Introduction to Safety and Health (OSHT 1X01) Principles of Management (BMGT 1X03) OR Supervision (BMGT 1X01) OR Problem Solving and Decision-Making (BMGT 1X03) Human Relations (HRPO 1X11) OR Communication Skills for Managers (BMGT 1X45) OR Customer Relations (MRKG 1X01) Introduction to Accounting I (ACCT 2X01) OR ACNT 1X03 Introduction to Business Logistics (LMGT 1X19) OR Logistics (INMT 1X36) Introduction to Materials Handling (LMGT 1X21) Business Ethics (BMGT 1X41) Warehouse and Distribution Management (LMGT 1X25) Practicum OR Internship (BMGT OR) Information and Project Management (BMGT 1X09) Quality Assurance and Quality Control (EPCT 1X51) POS Specific Courses Principles of Traffic Management (LMGT 2X34) DOT Regulations-HAZMAT (EPCT 2X00) Federal Motor Carrier Safety Regulations (CVOP 2X01) Principles of Imports (IBUS 1X02) Freight Loss and Damage Claims (LMGT 1X41) Principles of Exports (IBUS 1X01) Economics of Transportation (LMGT 1X45) Import Customs Regulation (IBUS 2X45)			Sample Career Options: Transportation Manager	Certificates, Licenses & Credentials Certification in Transportation and Logistics (CTL) Custom Broker License Commercial Drivers License (CDL)	
		Bachelor's Degrees	Aviation Technology Business Management Communications Economics		Electrical Engineering Engineering Mathematics		Career Options: Airplane Pilot (Commercial) Switch Operator/Repairer Air Traffic Controller Aviation Inspector
			Graduate Degrees	Aerospace Engineering Business Management Communications			Engineering Human Resources Mathematics

*May substitute for the required credit for Physical Education
**Satisfies the required credit for Technology Applications
***May substitute for the required credit for Health Education

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses, if possible.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2007. All plans should meet high school graduation requirements as well as college entrance requirements. Students may select other elective courses for personal enrichment purposes.