

# HIGH SCHOOL PLANNER

## TRANSPORTATION, DISTRIBUTION & LOGISTICS

This information should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this guide are only recommended coursework and should be individualized to meet each learner's education and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

<b>HIGH SCHOOL</b>	<b>9th</b>	<b>10th</b>	<b>11th</b>	<b>12th</b>
	Core Requirements		Core Requirements	
	English 9 Secondary Math 1 Science World Geography	English 10 Secondary Math 2 Science World Civilizations	English 11 Secondary Math 3 (PreCalculus) Science U.S. History	English 12 Calculus or Statistics American Gov. & Citizenship
	Required Electives			
	PE, The Arts, CTE, Computer Tech., Health, Financial Literacy			
	Career Electives (Choose Three Credits)			
	<b>9th</b>	<b>10th</b>	<b>11th</b>	<b>12th</b>
	Word Processing	Auto Mechanics	Auto Mechanics, Diesel Mechanics, Electronics, Agriculture & Animal Science, Collision & Refinish Technology, Welding, Aviation,	
<b>Career Enhancement Options</b>	<b>GTI</b>	<b>STATE CTE CAREER PATHWAYS</b>		<b>Work Based Learning</b> <b>CTSO Participation</b>
	Engineering Technology, Principles of Engineering, Intro to Engineering Design, Digital Electronics, Computer Integrated Manufacturing, Engineering Design & Development, Aviation.	The state Skilled & Technical Sciences CTE pathway has the following study plans to consider: Automotive Collision Repair, Automotive Service Tech., Heavy Duty Diesel, Electronics, Aviation Technology For more information see <a href="http://www.schools.utah.gov/cte/sts/">http://www.schools.utah.gov/cte/sts/</a>		See your Career Center Coordinator for information about Job Shadowing Internships Career Seminars Apprenticeships  You are strongly advised to participate in Career & Technical Student Organizations. The CTSOs associated with this cluster are Skills USA and TSA depending on pathway chosen
<b>Post Secondary</b>	<b>SLCC School of Applied Technology</b>		<b>Tech Training/ AS Degree (SLCC)</b>	
	Machinist, Welder, Professional Truck Driving, Heavy Duty Diesel Technician. For information visit: <a href="http://www.slcc.edu/sat">www.slcc.edu/sat</a>		Automotive Collision Repair, Automotive Service Pro-Tech, Heavy Equipment & Vehicle Institute, Automotive Technology, Aviation Maintenance Professional Pilot Training, Business Logistics, Warehouse Management For information visit: <a href="http://www.slcc.edu">www.slcc.edu</a>	
				<b>College/University</b>
				Engineering Professional Pilot Training Mechanical Engineering Aerospace Engineering Mechanical Engineering Technology For information about schools offering specific programs see UtahFutures



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.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample of Career Specialties / Occupations</p>	<p><b>Air/Space Transportation:</b> Transportation managers—air * Airplane pilots/copilots * Commercial pilots * Flight engineers * Flight attendants * Dispatchers-air * Traffic managers * Air traffic controllers * Aircraft cargo handling supervisors * Airfield operations specialists * Other airlines operations and support jobs</p> <p><b>Rail Transportation:</b> Transportation managers—rail * Dispatchers-rail * Traffic managers * Locomotive engineers, * Locomotive firers * Railyard conductors and yardmasters * Railroad brake, signal and switch operators (including train crew members and yard workers) * Railyard engineers, dinky operators, and hostlers * Other railyard and terminal operations and support jobs</p> <p><b>Water Transportation:</b> Transportation managers—water * Dispatchers—water * Traffic managers * Captains * Mates * Pilots of water vessels * Sailors and marine oilers * Able seamen * Ordinary seamen * Ship and boat captains * Ship engineers * Motorboat operators * Bridge and lock tenders * Other port/harbor/waterway/marina operations and support jobs</p> <p><b>Road Transportation</b> Transportation managers—road * Dispatchers--Truck/bus/taxi, traffic managers * Truck drivers-heavy * Truck drivers-tractor-trailer * Truck drivers—light or delivery services * Bus drivers-transit and intercity * Bus drivers-school * Taxi drivers and chauffeurs * Truck/bus/taxi terminal operations and support jobs</p> <p><b>Transit Systems:</b> Transportation managers—mass transit * Dispatchers-bus * Traffic managers * Dispatchers-rail * Traffic managers * Bus drivers—transit and intercity * Subway and streetcar operators * Other terminal operations and support jobs</p>	<p>Logisticians * Logistics managers * Logistics Engineers * Logistics analysts * Logistics consultants * International logistics</p>	<p>Warehouse managers * Storage and distribution managers * Industrial and packaging engineers * Traffic, shipping and receiving clerks * Production, planning, expediting clerks * First-line supervisors/managers of helpers * Laborers, and material movers-hand * First-line supervisors/managers of transportation and material-moving machine and vehicle operators * Laborers and freight, stock and material movers, hand * Car, truck and ship loaders * Packers and packagers-hand * Other packaging/packing/material handling and moving jobs</p>	<p><b>Facility:</b> Facility maintenance managers and engineers * Industrial equipment mechanics * Industrial electricians, * Electrical/electronic technicians * Other facility/terminal maintenance jobs</p> <p><b>Mobile Equipment:</b> <u>General</u>—Mobile equipment maintenance managers * Electrical and electronic installers and repairers—transportation equipment * Mobile heavy equipment mechanics <u>Air/Space</u>—Aerospace engineering and operations technicians * Aircraft mechanics and service technicians * Airframe mechanics * Power plant mechanics * Aircraft engine specialists * Aircraft body and bonded structure repairers * Avionics technicians. <u>Water</u>—Motorboat mechanics * Ship mechanics and repairers * Motorboat mechanics * Automotive/truck mechanics and body repairers <u>Rail</u>—Rail car repairers * Signal and track switch repairers * Rail locomotive and car mechanics and repairers <u>Road</u>—Electronic equipment installers and repairers—motor vehicle * Automotive body and related repairers * Automotive glass installers and repairers * Automotive service technicians and mechanics * Automotive master mechanics * Automotive specialty technicians * Bus and truck mechanics and diesel engine specialists * Motorcycle mechanics * Bicycle repairers * Tire repairers and changers</p>	<p><u>General</u>—<u>Intermodal</u>—Urban and regional planners * Civil engineers * Engineering technicians * Surveying and mapping technicians * Government service executives * Environmental compliance inspectors <u>Air/Space</u>—Air traffic controllers * Aviation inspectors <u>Road</u>—Traffic engineers * Traffic technicians * Motor vehicle inspectors * Freight inspectors, <u>Rail</u>—Railroad inspectors <u>Water</u>—Marine cargo inspectors * Vessel traffic control specialists <u>Transit</u>—Public transportation inspectors <u>Other</u>—Other government agency managers * Regulators * Inspectors, other federal/state/local transportation agency jobs</p>	<p>Health and safety managers * Industrial health and safety engineers * Environmental scientists and specialists * Environmental managers and engineers * Environmental compliance inspectors * Safety analysts</p>	<p>Marketing managers, * Sales managers * Sales representatives—transportation/logistics services * Reservation, travel and transportation agents/clerks * Cargo and freight agents * Customer service managers, * Customer service representatives * Customer order and billing clerks * Cashiers, counter and rental clerks</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Pathways</p>	<p style="text-align: center;"><b>Transportation Operations</b></p>	<p style="text-align: center;"><b>Logistics Planning and Management Services</b></p>	<p style="text-align: center;"><b>Warehousing and Distribution Center Operations</b></p>	<p style="text-align: center;"><b>Facility and Mobile Equipment Maintenance</b></p>	<p style="text-align: center;"><b>Transportation Systems/ Infrastructure Planning, Management, and Regulation</b></p>	<p style="text-align: center;"><b>Health, Safety and Environmental Management</b></p>	<p style="text-align: center;"><b>Sales and Service</b></p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Cluster K&amp;S</p>	<p style="text-align: center;"><b>Cluster knowledge and skills</b></p> <p style="text-align: center;">♦ Academic Foundations ♦ Communications ♦ Problem Solving and Critical Thinking ♦ Information Technology Applications ♦ Systems ♦ Safety, Health and Environmental ♦ Leadership and Teamwork ♦ Ethics and Legal Responsibilities ♦ Employability and Career Development ♦ Technical Skills</p>						