



## Fort Zumwalt East High School Program of Study (POS) for Transportation, Distribution, and Logistics

### Career Cluster Plan of Study

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

Grade	English 4 Credits	Math 3 Credits (4 recommended)	Science 3 Credits	Social Studies/ Sciences 3 Credits	Other Required Courses, Recommended Elective	Additional Learning Opportunities	<b>SAMPLE Occupations Relating to this Cluster</b>
9	English I / Pre-AP English I	Algebra I Geometry Pre-AP Geom.	Physical Science Biology, Pre-AP Biology	US History Pre-AP US His.	PE / Health or Fine Arts, Foreign Language, Principles of Business, Word Processing, Computer Applications, Intro to Leadership, Adv. Leadership, PLTW Comp Sci & Soft Engin	Clubs: FBLA ,DECA, Key Club, NHS, STUCO	<ul style="list-style-type: none"> <li>▶ Airplane Pilot/Co-Pilot</li> <li>▶ Air Traffic Controller</li> <li>▶ Avionics Technician</li> <li>▶ Cargo and Freight Agent</li> <li>▶ Customs Inspector</li> <li>▶ Environmental Manager</li> <li>▶ Facility engineer</li> <li>▶ Industrial Equipment Mechanic</li> <li>▶ Industrial and Packaging Engineer</li> <li>▶ International Logistics Specialist</li> <li>▶ Locomotive Engineer</li> <li>▶ Marine Captain</li> <li>▶ Port Manager</li> <li>▶ Safety Analyst</li> <li>▶ Storage and Distribution Manager</li> <li>▶ Transportation Manager</li> <li>▶ Truck Driver</li> <li>▶ Urban and Regional Planner</li> <li>▶ Warehouse Manager</li> </ul>
10	English II / Pre-AP English II	Geometry Pre-AP Geom Algebra II Pre-AP Alg II	Biology Pre-AP Biology Chemistry Gen Physics Zoology Astron, Geology, Env Sci I/II	World History AP World History	Personal Finance Accounting Business & Personal Law, , Business and Event Management, Marketing Concepts	Athletics Summer Camps Job Shadow Community Service	
11	American Literature / Pre-AP American Literature / AP Lang	Geometry Algebra II Pre-AP Alg II, Algebra III. Pre-AP Calc College Algebra AP Statistics	Chemistry Gen Physics Environ I & II ABC I Earth Sci - Astron Earth Sci – Geol AP Biology AP Chem. Human A & P AP Physics	Govt AP Govt AP US History AP World	Lewis and Clark Tech: Power Equipment Tech I	Volunteer see <a href="http://www.communitycouncilstl.org">www.communitycouncilstl.org</a> Part time Employment Entrepreneurship	
12	Senior Lit AP Lit AP Lang (or 2 sem classes	Algebra II Algebra III, College Algebra Pre-AP Calculus AP Calculus AB, AP Calculus BC, AP Statistics	See 11 <sup>th</sup> grade options ABC II	See 11 <sup>th</sup> grade options	Lewis and Clark Tech: Auto Service Tech II Auto Collision Repair II Power Equipment Tech II	<b>Assessments:</b> PSAT ACT SAT ASVAB MO Connections	

**Post Secondary:** For listing of Community Colleges, Tech Schools, and 4 year colleges: [www.missouriconnections.org](http://www.missouriconnections.org) or [www.collegeboard.com](http://www.collegeboard.com) Military, On-the-Job Training, Apprenticeship



**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.**

Sample of Career Specialties / Occupations	<p><b>Air/Space Transportation:</b> Transportation Managers (Air) * Commercial Pilots * Flight Engineers * Flight Attendants * Dispatchers (Air) * Traffic Managers * Air traffic Controllers * Aircraft Cargo Handling Supervisors * Airfield Operations Specialists</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 * Railyard Engineers, Dinkey Operators, and Hostlers</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 * Bridge and Lock Tenders</p> <p><b>Road Transportation</b> Transportation managers (Road) * Dispatchers (Truck/Bus/Taxi) * Traffic Managers * Truck Drivers (Tractor-Trailer) * Truck Drivers (Light or Delivery Services) * Bus Drivers (Transit and Intercity) * School Bus Drivers * Taxi Drivers and Chauffeurs</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</p>	<p>Logisticians * Logistics Managers * Logistics Engineers * Logistics Analysts * Logistics Consultants * * International Logistics Specialists</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 Packers-hand</p>	<p><b>Facility:</b> Facility Maintenance Managers and Engineers * Industrial Equipment Mechanics * Industrial Electricians, * Electrical/Electronic Technicians</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 * Avionics Technicians <u>Water</u>--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 Mechanics and Repairers <u>Road</u>--Electronic Equipment Installers and Repairers (Motor Vehicle) * Automotive Body and Related Repairers * Automotive Service Technicians and Mechanics * Automotive Master Mechanics * Automotive Specialty Technicians * Bus and Truck Mechanics and Diesel Engine Specialists * Motorcycle Mechanics * Bicycle Repairers</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>--Regulators * Inspectors and other federal/state/local transportation agency jobs</p>	<p>Health and Safety Managers * Industrial Health and Safety Engineers * Environmental Scientists and Specialists * Environmental Science and Protection Technicians * Environmental Managers and Engineers * Environmental Compliance Inspectors * Safety Analysts</p>	<p>Marketing Managers, * Sales Managers * Sales Representatives of Transportation /Logistics Services * Reservation, Travel and Transportation Agents * Cargo and Freight Agents * Customer Service Managers * Cashiers, Counter and Rental clerks</p>
Pathways	Transportation Operations	Logistics Planning and Management Services	Warehousing and Distribution Center Operations	Facility and Mobile Equipment Maintenance	Transportation Systems/ Infrastructure Planning, Management, and Regulation	Health, Safety and Environmental Management	Sales and Service
Cluster K&S	<p align="center"><b>Cluster Knowledge and Skills</b></p> <p 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>						