

# Endorsement: Business and Industry Program of Study: Transportation, Distribution, and Logistics



## Aircraft Mechanic and Pilot

Grade Level	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Four Year Plan</b>	-English I/AP English 1 -Algebra I/Algebra II/Pre-AP Algebra -Biology/Pre-AP Biology -World Geography/Pre-AP World Geography -Physical Education -Professional Communication (.5) -Health (.5)  <b><u>Aircraft Mechanic/Aircraft Pilot:</u></b> Intro to Aircraft Technology	-English II/AP English II -Algebra II/ Geometry/Pre-AP Geometry -Chemistry/Biology AP -World History/Pre-AP World History -Foreign Language -An Elective of Choice  <b><u>Aircraft Mechanic/Aircraft Pilot:</u></b> Aircraft Airframe Technology	-English III/AP English III -Geometry/ Pre-Calculus/ -IPC/Physics, Anatomy & Physiology, Or Environmental Systems/ Chemistry Pre-AP, AP Physics or Anatomy & Physiology -U. S. History/ AP U.S. History -Foreign Language - An Elective of Choice  <b><u>Aircraft Mechanic:</u></b> Aircraft Powerplant Technology  <b><u>Aircraft Pilot:</u></b> Practicum in Transportation Systems (Private Pilot)	-English IV/ AP English IV -Other Advanced Math/Pre-Calculus -Additional Science Course -Economics/Gov./AP Macroeconomics/ Government -Elective of Student Choice  <b><u>Aircraft Mechanic::</u></b> Aircraft Powerplant Technology Practicum In Transportation Systems (Aviation Mechanics)  <b><u>Aircraft Pilot:</u></b> Practicum in Transportation Systems (Commercial Pilot)
<b>Evidence and Outcomes</b>	<b>Evidence:</b> Create a Resume Create an Email Account Written Reflection of Speakers Written Reflection of College Tours/Industry Tour Texas Reality Check- <a href="https://texasrealitycheck.com/">https://texasrealitycheck.com/</a> Complete Career Investigation Poster Build a Shoe Box Glider	<b>Evidence:</b> Build a tool tray Model aircraft	<b>Evidence:</b> <b>Electric Car Projects</b> Wing table Door mirror Tire repair Flight control repair Conceal box	<b>Evidence:</b> <b>Electric Car Projects</b> Wing table Door mirror Tire repair Flight control repair Conceal box



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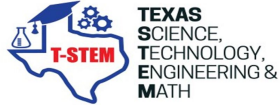
<b>Certifications</b>	OSHA Cert.		Precision Measurement Private Pilot Written Test	Composite Tech Cert Private Pilot Certificate Envoy Air
<b>Work Based Learning</b>	<p><b>Field Trips:</b> <a href="https://www.southwest.com/campusreach/">https://www.southwest.com/campusreach/</a> (Maybe possible reach out to 8th graders to make it a joint field trip)</p> <p><b>Guest Speakers:</b></p> <p><b>Industry Tours( Job Shadowing)</b> Commemorative Air Force (Redbird Airport)</p> <p><b>Pilot:</b> Flight Service Station (FSS) at Alliance Airport Control Tower Air Route Traffic Control Centers (ARTCC)</p>	<p><b>Field Trips:</b> <a href="https://www.southwest.com/campusreach/">https://www.southwest.com/campusreach/</a></p> <p><b>Guest Speakers:</b></p> <p><b>Industry Tours( Job Shadowing)</b> <a href="https://www.southwest.com/campusreach/">https://www.southwest.com/campusreach/</a></p> <p><b>Pilot:</b> National Weather Service (NWS) Office FAA Office</p>	<p><b>Field Trips:</b> DFW Career expo CAF Airshow Red Bull Air Races</p> <p><b>Guest Speakers:</b> Spartan Jill Crawford with Aircraft Technical Services</p> <p><b>Industry Tours( Job Shadowing)</b> Triumph Aerostructures Dallas Aeronautical Services Commemorative Air Force</p> <p><b>Pilot:</b> CAE SimuFlite and/or Flight Safety</p>	<p><b>Field Trips:</b> Spartan</p> <p><b>Guest Speakers:</b> Jill Crawford with Aircraft Technical Services</p> <p><b>Industry Tours( Job Shadowing)</b> Triumph Aerostructures Dallas Aeronautical Services Commemorative Air Force</p> <p><b>Pilot:</b> American Airlines Southwest Airlines</p>



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<b>College Experience</b>	College Tours		MIAT Houston TEXAS SOUTHERN UNIVERSITY  <b>Pilot:</b> Le Tourneau University Texas State Technical College (TSTC) Waco	Tarrant County College TEXAS STATE TECHNICAL COLLEGE Aviation maintenance institute LE Tourneau University
<b>Competitions/ Clubs(open to all students)</b>		Skills USA ( <a href="http://www.skillsusa.org">www.skillsusa.org</a> ) FEb or April  Desoto Pre Skills Competition Jan	Sept. 27, 2018- STEM Innovators In Training Experience & Invitational, Waxahachie, texas (9 am -1 pm.)  <a href="http://www.solarcarchallenge.org/challenge/">(http://www.solarcarchallenge.org/challenge/)</a>  Composite Clip Board	Sept. 27, 2018- STEM Innovators In Training Experience & Invitational, Waxahachie, texas (9 am -1 pm.)
<p><b>Potential Careers and Compensation :</b>  Aircraft Mechanic and Service Technicians- \$60, 128.00  Airline Pilots, Copilots,- \$25,000 to \$199, 000,  All Pilots - \$14,000 to \$200,000 In China up to \$300,000</p>				



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## Automotive

Grade Level	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> grade
<b>Four Year Plan</b>	-English I/AP English 1 -Algebra I/Algebra II/Pre-AP Algebra -Biology/Pre-AP Biology -World Geography/Pre-AP World Geography -Physical Education -Professional Communication (.5) -Health (.5)  <b>Automotive:</b> Energy, Power, Transportation Systems	-English II/AP English II -Algebra II/ Geometry/Pre-AP Geometry -Chemistry/Biology AP -World History/Pre-AP World History -Foreign Language -An Elective of Choice  <b>Automotive (Dual Credit):</b> Automotive Technology I  <b>Automotive:</b> Automotive Basics	-English III/AP English III -Geometry/ Pre-Calculus/ -IPC/Physics, Anatomy & Physiology, Or Environmental Systems/ Chemistry Pre-AP, AP Physics or Anatomy & Physiology -U. S. History/ AP U.S. History -Foreign Language - An Elective of Choice  <b>Automotive (Dual Credit):</b> Automotive Technology II (Dual Credit)  <b>Automotive:</b> Small Engine Technology I	-English IV/ AP English IV -Other Advanced Math/Pre-Calculus -Additional Science Course -Economics/Gov./AP Macroeconomics/ Government -Elective of Student Choice  <b>Automotive (Dual Credit):</b> Practicum in Transportation Systems (Automotive-Dual Credit)  <b>Automotive:</b> Small Engine Technology II



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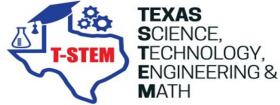
<b>Evidence and Outcomes</b>	<p>Evidence:            Create a Resume            Create a Business Email Account            Written Reflection of Speakers            Written Reflection of College Tours/Industry Tour            Texas Reality Check- <a href="https://texasrealitycheck.com/">https://texasrealitycheck.com/</a>            Focus on Hand Tools, Safety, Theory, Physics, Principles of Combustion,</p>	<p>Learn various shop tools and equipment            Learn how to maintain vehicle fluids.            Learn vehicle recommended maintenance schedules.            Reinforce teamwork, and employability skills,            Learn metalworking, and carpentry tools.</p>		
<b>Certifications</b>	<p>OSHA, Valvoline Engine Oil, Valvoline Automotive Chemicals, Valvoline Automotive Fluids, Valvoline Resume Writing, Valvoline People 101</p>	ALLDATA	ALLDATA	<p>Certs from CVC            Students will obtain Basic Mechanical Certs</p>
<b>Work Based Learning</b>	<p><b>Guest Speakers:</b></p> <p><b>Industry Tours( Job Shadowing)</b></p>	<p><b>Guest Speakers:</b></p> <p><b>Industry Tours( Job Shadowing)</b></p>	<p><b>Guest Speakers:</b> Kim w/ UTI</p> <p><b>Industry Tours( Job Shadowing)</b></p>	<p><b>Guest Speakers:</b> Kim w/ UTI</p> <p><b>Industry Tours( Job Shadowing)</b></p>
<b>College Experience</b>	College Tours		EASTFIELD	Chevy Plant- Arlington



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<b>Competitions/Clubs(open to all students)</b>	Build a Hovercraft. Build an Auto Shop Diorama	SKILLS USA DESOTO PRE SKILLS USA  Complete Skills USA projects, Build a Mechanic's Tool Box, Refurbish and restore a classic automobile.  Octagon Picnic Table rear car sofa Clocks Tractor Eagle Mobile Puzzles from steel Game of thrones chair	Skills USA with small engine Earn an Automotive Technician work shirt (Snap-on) w/ Certification Patches (\$45)	Skills USA										
<b>Potential Careers and Compensation :</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Tire/Lube Technician - \$28,748</td> <td style="width: 50%;">Automotive Technician/Master Mechanic - \$37,000 to \$92,000</td> </tr> <tr> <td>Service Manager - \$78,000</td> <td>Sale Associate -\$30,521</td> </tr> <tr> <td>Vehicle Inspector -\$28,019</td> <td>Diesel Mechanic - \$45,769 to \$58,392</td> </tr> <tr> <td>Automobile Designer -\$50,223 - \$124,412</td> <td>Collision Repair Technicians -\$41,570 - \$65,030</td> </tr> <tr> <td>Automotive/Mechanical Engineer - \$84,000.00 - \$120,000.00</td> <td></td> </tr> </table>					Tire/Lube Technician - \$28,748	Automotive Technician/Master Mechanic - \$37,000 to \$92,000	Service Manager - \$78,000	Sale Associate -\$30,521	Vehicle Inspector -\$28,019	Diesel Mechanic - \$45,769 to \$58,392	Automobile Designer -\$50,223 - \$124,412	Collision Repair Technicians -\$41,570 - \$65,030	Automotive/Mechanical Engineer - \$84,000.00 - \$120,000.00	
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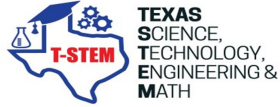


## Transportation Manager/Logistics

Grade Level	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> grade
<b>Four Year Plan</b>	<ul style="list-style-type: none"> <li>-English I/AP English 1</li> <li>-Algebra I/Algebra II/Pre-AP Algebra</li> <li>-Biology/Pre-AP Biology</li> <li>-World Geography/Pre-AP World Geography</li> <li>-Physical Education</li> <li>-Professional Communication (.5)</li> <li>-Health (.5)</li> </ul> <p><b>Transportation Manager/Logistics:</b> Principles of Transportation Systems</p> <p><b>Transportation Manager/Logistics(DC):</b> Energy, Power, Transportation Systems</p>	<ul style="list-style-type: none"> <li>-English II/AP English II</li> <li>-Algebra II/ Geometry/Pre-AP Geometry</li> <li>-Chemistry/Biology AP</li> <li>-World History/Pre-AP World History</li> <li>-Foreign Language</li> <li>-An Elective of Choice</li> </ul> <p><b>Transportation Manager/Logistics:</b> Management of Transportation Systems</p> <p><b>Transportation Manager/Logistics(DC):</b> Principles of Transportation System</p>	<ul style="list-style-type: none"> <li>-English III/AP English III</li> <li>-Geometry/ Pre-Calculus/ IPC/Physics, Anatomy &amp; Physiology, Or Environmental Systems/ Chemistry Pre-AP, AP Physics or Anatomy &amp; Physiology</li> <li>-U. S. History/ AP U.S. History</li> <li>-Foreign Language</li> <li>- An Elective of Choice</li> </ul> <p><b>Transportation Manager/Logistics:</b> Distribution and Logistics</p> <p><b>Transportation Manager/Logistics(DC):</b> Management of Transportation Systems</p>	<ul style="list-style-type: none"> <li>-English IV/ AP English IV</li> <li>-Other Advanced Math/Pre-Calculus</li> <li>-Additional Science Course</li> <li>-Economics/Gov./AP Macroeconomics/ Government</li> <li>-Elective of Student Choice</li> </ul> <p><b>Transportation Manager/Logistics:</b> Practicum In Distribution &amp; Logistics</p> <p><b>Transportation Manager/Logistics(DC):</b> Distribution and Logistics</p>
<b>Evidence and Outcomes</b>	Evidence: Create a Resume Create an Email Account			



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	Written Reflection of Speakers Written Reflection of College Tours/Industry Tour Texas Reality Check- <a href="https://texasrealitycheck.com/">https://texasrealitycheck.com/</a>			
<b>Certifications</b>				
<b>Work Based Learning</b>	Guest Speakers:  Industry Tours( Job Shadowing)	Guest Speakers:  Industry Tours( Job Shadowing)	Guest Speakers:  Industry Tours( Job Shadowing)	Guest Speakers:  Industry Tours( Job Shadowing)
<b>College Experience</b>	College Tours			
<b>Competitions/Clubs(open to all students)</b>				
<b>Potential Careers and Compensation :</b>				