



# Commonwealth of Virginia Plan of Study

Student Name: \_\_\_\_\_  
School: \_\_\_\_\_  
Date: \_\_\_\_\_

Cluster: Transportation, Distribution & Logistics

Pathway: Automotive Technology

*This Career Pathway Plan of Study can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Mathematics	Science	Social Studies/ Science	Other Required Courses Recommended Electives Learner Activities	Recommended Career and Technical Courses Source: Administrative Planning Guide www.doe.virginia.gov/VDOE/ Instruction/CTE/apg/	SAMPLE – Occupations Relating to This Pathway: www.doe.virginia.gov/VDOE/ Instruction/CTE/careerclusters/ www.careerclusters.org www.cteresource.org/cpg/
<b>Graduation Requirements: <a href="http://www.doe.virginia.gov/2plus4in2004/index.shtml">http://www.doe.virginia.gov/2plus4in2004/index.shtml</a></b>								
<b>MIDDLE</b>	7	English	Math 7/3111	4115/Life Science	Social Studies 7/2355	Health & PE	Introduction to Technology / Inventions & Innovations	<ul style="list-style-type: none"> <li>- Aerospace Engineering/Operations Technician</li> <li>- Aircraft Body/Bonded Structure Repairer</li> <li>- Aircraft Mechanic/Service Technician</li> <li>- Automotive Body/Related Repairer</li> <li>- Automotive Glass Installer/Repairer</li> <li>- Automotive Service Technician/Mechanic</li> <li>- Avionics Technician</li> <li>- Bus/Truck Mechanic</li> <li>- Collision Repair Technician</li> <li>- Diesel Engine Specialist</li> <li>- Diesel Service Technician</li> <li>- Electrical/Electronic Installer/Repairer</li> <li>- Electrical/Electronic Technician</li> <li>- Facility Maintenance Manager/Engineer</li> <li>- Industrial Electrician</li> <li>- Industrial Equipment Mechanic</li> <li>- Motorboat Mechanic</li> <li>- Off-Road Equipment Technician</li> <li>- Rail Locomotive/Car Mechanic/Repairer</li> <li>- Service Manager</li> <li>- Service Writer</li> <li>- Ship Mechanic/Repairer</li> <li>- Small Engine Mechanic</li> </ul>
	8	English	Math 8/3112	4125/Physical Science 8	Social Studies 8/2220 Civics & Economics	Health & PE	Keyboarding /Technological Systems	
<b>Career Assessment:</b> Administration of a career assessment instrument is appropriate at the middle school level to help students and their parents plan for high school (Virginia's Career Planning System or other assessment product).								
<b>SECONDARY</b>	9	English	Algebra I	Earth Sciences	World History/ Geography	Health & PE (2 years) Foreign Language (3 years) Other Electives to Complement Pathway (Core Academic and CTE):	6612 Computer Information Systems/ITE 115 DE	
	10	English	Geometry	Biology	World History/ Geography		8445 Power & Transportation Technology	
	11	English	Algebra II	Chemistry	US/VA History		8506 Automotive Technology I DE	
	12	English/111/112 College Composition DE	Trigonometry/ Advanced Algebra	Physics (or Principles of Technology I and II)	US/VA Government		8507 Automotive Technology II DE	
<b>High school courses in the pathway offered locally for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)</b>								
<b>List related certifications/credentials approved by VDOE and offered locally:</b> <a href="http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/">http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/</a> (Go to Section 9.)  Automotive Service Excellence (ASE)						<b>Additional Learning Opportunities:</b> CTSO Organization(s): <input type="checkbox"/> DECA <input type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input type="checkbox"/> FFA <input type="checkbox"/> FEA <input type="checkbox"/> HOSA <input checked="" type="checkbox"/> SkillsUSA <input checked="" type="checkbox"/> TSA		
						<b>Work-Based Learning:</b> <input type="checkbox"/> Career Research <input type="checkbox"/> Cooperative Education <input checked="" type="checkbox"/> Internship <input type="checkbox"/> Mentorship <input checked="" type="checkbox"/> Job Shadowing <input type="checkbox"/> Service Learning Project <input type="checkbox"/> Student Apprenticeship		
<b>Postsecondary: Placement Assessments such as COMPASS &amp; SAT II</b>						<b>College Entrance Exams such as ACT &amp; SAT</b>		
<b>POSTSECONDARY</b>	<b>SAMPLE POSTSECONDARY PROGRAMS RELATED TO THIS CAREER PATHWAY</b> Individual plans must include locally agreed upon courses at the postsecondary level (See page 2)							
	<b>Pathway</b>	<b>Associate Degree, College Certificate, or Apprenticeship</b>			<b>Bachelors Degree</b>		<b>Postgraduate Degree</b>	
	Automotive Technology	Automotive Technology AAS (JSRCC)						

College: [J. Sargeant Reynolds Community College](#)

School Division(s): \_\_\_\_\_

Postsecondary: Placement Assessments such as COMPASS & SAT II

POSTSECONDARY - COMMUNITY COLLEGE or APPRENTICESHIP - Determined Locally	Semester	English	Mathematics	Science	Social Studies	Required Courses or Recommended Electives			
	POSTSECONDARY PLAN OF STUDIES MUST INCLUDE POSTSECONDARY ACADEMIC, CTE, AND OTHER ELECTIVE COURSES APPROPRIATE FOR AN ASSOCIATE DEGREE.								
	Year 1 1 <sup>st</sup> Semester	ENG 111 College Composition I DE or ENG 137 Communication Processes	AUT 111 Automotive Engines I	AUT 241 Automotive Electricity I	SDV 101 Orientation to Transportation Careers	AUT 267 Automotive Suspension & Braking Systems			
	Year 1 2 <sup>nd</sup> Semester	AUT 112 Automotive Engines II	AUT 242 Automotive Electricity II	AUT 268 Automotive Alignment	AUT 197 Cooperative Education	ITE 115 Intro to Computer Applications & Concepts DE	Personal Wellness Elective	Social/Behavioral Science Elective	
	Year 2 1 <sup>st</sup> Semester	AUT 126 Auto Fuel & Ignition Systems	AUT 141 Auto Power Trains I	AUT 197 Cooperative Education	AUT 236 Automotive Climate Control	Social/Behavioral Science Elective			
Year 2 2 <sup>nd</sup> Semester	AUT 142 Auto Power Trains II	AUT 165 Auto Diagnosis & Tune-Up	AUT 245 Automotive Electronics	AUT 297 Cooperative Education	MTH 103 Applied Technical Mathematics	Humanities/Fine Arts Elective			

College courses offered locally in the high school for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)

**Related Industry Certifications Available:**

Automotive Service Excellence (ASE)

**Additional Suggested Learning Opportunities:**

**Work-Based Learning:**

- Cooperative Education   
  Internship   
  Mentorship  
 Job Shadowing   
  Service Learning Project   
  Registered Apprenticeship

**UNIVERSITY**

University/College:  
 Degree or Major:  
 Number of Articulated CC Credits:

Notes: