

# High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



## Pathway: Mechanics & Repairs Automotive Service Technician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																									
7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	Middle School	High School	9 <sup>th</sup> Grade Suggested	10 <sup>th</sup> Grade Suggested	11 <sup>th</sup> Grade Suggested	12 <sup>th</sup> Grade Suggested	Beyond High School																																										
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts 4.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none"> <li>&gt; Certificate</li> <li>&gt; Associate degree</li> <li>&gt; Bachelor's degree</li> <li>&gt; Professional degree</li> <li>&gt; On-the-job training</li> <li>&gt; Apprenticeship</li> <li>&gt; Military training</li> </ul> <p><b>Automotive Service Technician is:</b></p> <ul style="list-style-type: none"> <li>&gt; High skill</li> <li>&gt; High wage</li> <li>&gt; High demand</li> <li>&gt; Nontraditional for females</li> </ul> <p><b>Sample Occupations</b></p> <ul style="list-style-type: none"> <li>&gt; Aircraft Mechanic Technician</li> <li>&gt; Automotive Service Technician</li> <li>&gt; Automotive Service Technician Teacher</li> <li>&gt; Mechanic</li> <li>&gt; Motorboat Mechanic</li> </ul> <p>For more information on salary projections, labor market demand, and training options, visit <a href="http://www.utahfutures.org">www.utahfutures.org</a>.</p>																																										
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math 3.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Additional credit 1.00																																												
Science .50	Science 1.00	1.50	Science 3.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	Additional credit 1.00																																												
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies 2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																											
P.E. 1.00	Health .50	1.50	P.E./Health 2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																													
The Arts .50	The Arts .50	1.00	Fine Arts 1.50	Fine Arts Courses 1.50																																														
			Financial Literacy .50				Financial Literacy .50																																											
Keyboarding .50			Computer Tech. .50	Computer Technology .50																																														
CTE Intro 1.00		1.00	Career and Technical Education 1.00	<p><b>Career and Technical Education Recommended Pathway Courses</b></p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p><b>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</b></p> <table border="1"> <thead> <tr> <th>Course #</th> <th>Foundation Course: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>47.0604</td> <td>Introduction to Automotive</td> <td>.50</td> </tr> <tr> <td colspan="3"><i>Choose one of the following courses:</i></td> </tr> <tr> <td>47.0612</td> <td>Vehicle Inspection Technician</td> <td>.50</td> </tr> <tr> <td>47.0624</td> <td>ASE General Service Technician *</td> <td>1.00</td> </tr> <tr> <td>47.0634</td> <td>ASE Brakes</td> <td>1.00</td> </tr> <tr> <td>47.0644</td> <td>ASE Steering and Suspension</td> <td>1.00</td> </tr> <tr> <td>47.0654</td> <td>ASE Electrical/Electronics</td> <td>2.00</td> </tr> <tr> <td>47.0664</td> <td>ASE Engine Performance</td> <td>2.00</td> </tr> <tr> <td colspan="3"><b>Elective Courses:</b></td> </tr> <tr> <td>47.0105</td> <td>Basic Electronics</td> <td>.50</td> </tr> <tr> <td>47.0603</td> <td>Collision Non-Structural and Structural Repair</td> <td>1.00</td> </tr> <tr> <td>47.0606</td> <td>Small Vehicle Technician</td> <td>1.00</td> </tr> <tr> <td>32.0199</td> <td>Student Internship (Critical Workplace Skills)</td> <td>.50</td> </tr> </tbody> </table> <p>* This course can be taken multiple times to meet the ASE standard.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>					Course #	Foundation Course: (required)	Credit	47.0604	Introduction to Automotive	.50	<i>Choose one of the following courses:</i>			47.0612	Vehicle Inspection Technician	.50	47.0624	ASE General Service Technician *	1.00	47.0634	ASE Brakes	1.00	47.0644	ASE Steering and Suspension	1.00	47.0654	ASE Electrical/Electronics	2.00	47.0664	ASE Engine Performance	2.00	<b>Elective Courses:</b>			47.0105	Basic Electronics	.50	47.0603	Collision Non-Structural and Structural Repair	1.00	47.0606	Small Vehicle Technician	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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<b>Workforce Trends</b> Job opportunities in the automotive industry are expected to be very good for persons with formal training, strong diagnostic and problem-solving skills, and knowledge of electronics and mathematics. Employment of automotive service technicians and mechanics is expected to increase 9 to 17% through the year 2014.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor.			<p>1.50 credits</p>																																													
<b>Get the Facts</b> According to the U.S. Department of Labor, the automotive industry is rapidly growing and "the work of automotive service technicians and mechanics has evolved from simply mechanical to high technology."		Concurrent enrollment course offerings vary by school and district.							<p>1.50 credit</p>																																									
		Foundation courses taken beyond the required credits can be used as elective credit.			<p>3.00 credits for completion</p>																																													
		This is a nontraditional occupation for women. In 2007, 1.6 percent of the people employed in this occupation were women.																																																

**Note:** For more information, talk to your school counselor.