



# Automotive Technology Program of Study



## Education Planning Guide for Middle School and Beyond

This program of study, along with other career planning materials, serves as a guide to assist students in the Auburn School District in developing a relevant middle-to-high school plan that will prepare them for further education and/or employment in the Transportation, Distribution and Logistics career cluster. The program of study outlined below can be individualized to meet each learner's education and career goals. It allows students to earn high school credits while completing coursework in middle school, earn college credits while completing coursework within high school, and apply those credits toward attainment of a college certificate and/or degree. It is important to share and review this plan with a parent/guardian and school counselor.

Auburn SD Component of Program of Study	Grade	English	Social Studies	Science	Math	Health/ Fitness	Arts	Career and Technical	Related Electives	Auburn School District Graduation Requirements		
	Middle School	Successfully complete required coursework for 6 <sup>th</sup> , 7 <sup>th</sup> and 8 <sup>th</sup> grade, and these electives →							STEM Robotics, STEM Mechatronics 1 & 2 or STWEM Construction 1 & 2			<b>Credit Requirements (24.0 credits total):</b> 4.0 credits - English 3.0 credits - Social Studies 3.0 credits - Math 3.0 credits - Science 1.5 credits - Fitness 0.5 credits - Health 2.0 credits - Arts ** 2.0 credits - World Language ** 1.0 credits - Career and Technical 4.0 credits - Electives <b>Additional Requirements:</b> • High School and Beyond Plan • Culminating Project/Portfolio • Certificate of Academic Achievement or Approved Alternative
	9	Language Arts	World Studies (.5) or AP Human Geography	Science (1.0) Next Gen or Biology	Algebra I			2.0 Credit from Fine Arts or Course Equivalencies	<b>Electronics or Automotive—Small Gas Engines (AHS)</b>		Orientation or Career Choices	
	10	Language Arts	Global Issues (.5) or AP Euro	Science (1.0) Next Gen or Chemistry	Geometry	10 <sup>th</sup> Grade Health (.5)			<b>Automotive Technology 1-2* (two hour block)</b>		Minimum of two years of the same world language are required for students planning to enroll at a four-year university	
	11	American Literature 1, 2	U. S. History or AP U. S. History	Chemistry	Advanced Algebra and Trig	1.5 Credits From Fitness Courses			<b>Automotive Technology—Advanced 1-2* (three hour block)</b>			
12	Senior English Electives	Civics (.5) and Elective (.5) or AP American Government (1.0)	Physics or AP Biology or AP Chemistry	AP Statistics or Pre-Calculus			<b>Automotive Technology—Advanced 3-4* (three hour block)</b>					

\*Students who earn a "B" or better in these courses may be eligible for college credit. See page 2 for more information. \*\*Credits may be applied in a chosen career pathway

Post - High Program of Study	Apprenticeship Opportunities	Earn a Certificate and Enter the Workforce	Earn an Associate's Degree and transition to a 4-year university or enter the workforce	Earn a 4-year college degree, and then enter the workforce
	To learn more about apprenticeships in this program, go to:  <a href="#">Apprenticeship Registration &amp; Tracking</a> School Bus Mechanic Steering and Suspension Technician Automotive Mechanic Brake and Air System Technician Drive Train System Technician Electronic System Technician Heavy Duty Equipment Mechanic Medium/Heavy Duty Diesel Mechanic	ASE Certification and ASE Alliance Accreditation Program  <a href="#">Bates Technical College</a> Automotive Apprenticeship Program  <a href="#">Renton Technical College</a> Automotive  <a href="#">Green River Community College</a> Auto Body Technology Automotive Technology	<a href="#">Green River Community College</a> Automotive Technology  <a href="#">Renton Technical College</a> Automotive Technology  <a href="#">UTI</a>  <a href="#">Clover Park</a>  <a href="#">Shoreline Community College</a>	<a href="#">Western Washington University</a> Industrial Technology/Vehicle Design

The Post-High School program options listed above for this Program of Study represent just some examples of options available within the Puget Sound area, including programs where agreements for dual credit exist between the college and school district. For other options available related to this program of study, visit your career center or the websites of local colleges.



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The Automotive program prepares students for the highly technical and rewarding careers within the automotive field. As an ASE/ASE Alliance certified program, this program features state of the art equipment used in the automotive industry, training from industry experts, and hands-on experience with vehicles equipped with the latest technologies. Students apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Students receive instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air conditioning systems. Advanced students in the program will have opportunities to work toward nationally recognized Automotive Service Excellence (ASE) certifications, as well as job shadows and obtain paid internships at local automotive dealerships.

### **Occupational Information**

The following represent occupations within this field and their average annual earnings and openings based on data from the Washington State Employment Security Department. For more information about these and other occupations within this field, go to <https://esd.wa.gov/labormarketinfo>

<u>Occupation</u>	<u>Washington State Projected Openings 2016-2026</u>	<u>Earnings</u>
Automotive Service Technicians	563	\$47,211 yr.
Bus & Truck Tech & Diesel Engine Specialists	387	\$53,921 yr.
Automotive Body and Related Repairers	145	\$51,985 yr.
Aircraft and Service Technicians	245	\$73,259 yr.
Heavy Equipment Technicians	125	\$53,876 yr.

### **Post-High School Connections**

The following courses within this program of study may be eligible for college credit at several local colleges if students earn a “B” or better:

<u>High School Course</u>	<u>Credits Possible</u>	<u>College</u>	<u>College Course</u>
Automotive Technology I, II	12	CPTC	AUT 147, 149
	10	Green River	ATECH 111, 112, 116, 117
	2	Renton Tech	AUTC 1101

### **Industry Certification Options**

Automotive Service Excellence - Auto Certification  
 Equipment & Engine Training Council –Stihl/Briggs & Stratton Small Engine Certification

### **Student Leadership Development**



Skills USA serves high school and college students enrolled in training programs in trade, technical and skilled service occupations. Programs include local, state and national competitions in which students demonstrate occupational skills, leadership, teamwork, citizenship, and promotes involvement in community service activities.

### **Scholarship Opportunities**

For local, state, and national scholarship opportunities, please visit your counseling and/or career center, Career Cruising [www.CareerCruising.com](http://www.CareerCruising.com), WOIS [www.wois.org](http://www.wois.org), [thecareermap.org](http://thecareermap.org) or Fast Web [www.FastWeb.com](http://www.FastWeb.com)

For more information about this Program of Study, contact an instructor, a school counselor or a career specialist.