

# OPENING DOORS TO THE **FUTURE**



## **Business and Industry Endorsement** *Automotive (Technology) CTE Pathway*

Grade	Language Arts	Math	Science	Social Studies	Required CTE Courses	Potential Certification Opportunities
9 <sup>th</sup>	English I	Algebra I	Biology	World History	<b>*Principles of Transportation Systems (1 Credit)</b>	Certifications: AWS D1.1 & D9.1 Welding & ASE Brakes
10 <sup>th</sup>	English II	Geometry	Chemistry		<b>* Automotive Basics I (1 Credit)</b>	
11 <sup>th</sup>	English III	Approved 3 <sup>rd</sup> Year Math	Approved 3 <sup>rd</sup> Year Science	U.S. History	<b>* Auto Technology 1<sup>A</sup> (2 Credit)</b>	
12 <sup>th</sup>	English IV <b>OR</b> Approved 4 <sup>th</sup> Year English	Approved 4 <sup>th</sup> Year Math	Approved 4 <sup>th</sup> Year Science	Government <b>AND</b> Economics	<b>* Practicum of Transportation (2 Credits)</b>	

Required Electives
<p><b>*Business Information Management (1 Credit)</b>  <b>*Professional Communication (.5 Credit)</b>  <b>*Dollars and Sense (.5 Credit)</b></p>

Sample Career Opportunities	High School	On the Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary	Possible Majors
Automotive Service Technician		X	X	X			\$38,459	*Automotive Technician *Automotive Diesel Technician
Automotive Engineer					X	X	\$82,000	*Diesel Training *Automotive Mechanic
Insurance Claims Appraiser		X		X			\$58,000	*Automotive Service Advisor

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### Principles of Transportation Systems

TSDS PEIMS Code: 13039550 (AUTOBASC)

Grade Placement: 9–12

GHS Section 4074

Available as a CTE Elective

Credit: 1

Prerequisite: None.

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

### Automotive Basics I

TSDS PEIMS Code: 13040000

Grade Placement: 9–12

GHS Section \_\_\_\_

Available as a CTE Elective

Credit: 1

Prerequisite: None.

Small Engine Technology I includes knowledge of the function and maintenance of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities.

### Automotive Technology I: Maintenance and Light Repair

TSDS PEIMS Code: 13039600 (AUTOTEC1)

Grade Placement: 9–12

GHS Section 4077

Available as a CTE Elective

Credit: 2

Prerequisite: None.

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

### Practicum in Transportation Systems

TSDS PEIMS Code: 13040450 (First Time Taken) (PRACTRS1) Designated for Pathway Students  
13040460 (Second Time Taken) (PRACTRS2)

Grade Placement: 11–12

GHS Section 4080

Credit: 2

Prerequisite: None.

Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.