



## Automotive Program of Study

### Business and Industry Endorsement

The **Automotive** program of study teaches students how to repair automobiles and service various types of vehicles. Students may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.

*To complete the Program of Study, students must earn four credits in the Program of Study and one of the credits must be an Advanced Level course.*

**NOTE: All students in this program of study are enrolled in Dual Technical Credit through Tarrant County College. Students are required to complete the application process for dual credit.**

### *Postsecondary Options, Occupations and Additional Learning Opportunities*

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Automotive Service Excellence (ASE) Entry Level	Master Collision Repair and Refinishing Technician	Autobody/Collision and Repair Technology/Technician		Mechanical Engineering	Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Excellence (ASE) Professional Level	Automobile Technician: various systems and parts	Medium/Heavy Vehicle and Truck Technology/Technician			Automotive Service Technician and Mechanics	\$38,459	208	25%
	Engine Machinist Technician	Mechanical Engineering/Mechanical Technology/Technician						
	Collision Repair and Refinish							
					<b>WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES</b>			
Additional industry based certification information is available from the TEA CTE website.					<b>Exploration Activities:</b> SkillsUSA competition Automotive Service Association	<b>Work Based Learning Activities:</b> Work at a local automotive repair or body shop.		
For more information on postsecondary options for this program of study, visit TXCTE.org.								

## Courses in the **AUTOMOTIVE** Program of Study

*To complete the Program of Study, students must earn four credits in the Program of Study and one of the credits must be an Advanced Level course.*

Entry-Level Courses	Advanced Courses
<ul style="list-style-type: none"> <li><input type="checkbox"/> Small Engine Technology I</li> <li><input type="checkbox"/> Automotive Basics <i>(must be taken concurrently with Automotive Technology I)</i></li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Automotive Technology I <i>(must be taken concurrently with Automotive Basics)</i></li> <li><input type="checkbox"/> Automotive Technology II <i>(must be taken concurrently with Advanced Transportation Systems Laboratory)</i></li> <li><input type="checkbox"/> Advanced Transportation Systems Laboratory <i>(must be taken concurrently with Automotive Technology II)</i></li> </ul>

### **Small Engine Technology I**

*Recommended Grade Placement: 9-10*

Course #: 07229615

1 Credit

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 Basics**

*Recommended Grade Placement: 11*

*NOTE: This course must be taken concurrently with Automotive Technology I*

Course #: 07220135

1 Credit

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 Technology I: Maintenance and Light Repair**

Course #: 07229600

*Recommended Grade Placement: 11*

2 Credits

*Recommended Prerequisite: Small Engine Technology I | NOTE: This course must be taken concurrently with Automotive Basics*

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. 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.

**Automotive Technology II: Automotive Service**

Course #: 07229601

*Recommended Grade Placement: 12*

2 Credits

*Prerequisite: Automotive Technology I: Automotive Basics | NOTE: This course must be taken concurrently with Advanced Transportation Systems Laboratory*

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, 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.

**Advanced Transportation Systems Laboratory**

Course #: 07229601

*Recommended Grade Placement: 12*

1 Credit

*Prerequisite: Automotive Technology I: Automotive Basics | NOTE: This course must be taken concurrently with Advanced Transportation Systems Laboratory*

This course provides an enhancement opportunity for students to develop the additional skills necessary to pursue industry certification in Automotive Technology. It is a concurrently scheduled course with Automotive Technology II.

## [Heavy Line Certification](#)

### **College Credit Opportunity – Tarrant County College**

Crowley ISD offers dual credit courses in Automotive Technology. These courses are offered through Tarrant County College and tuition is waived. Please refer to the College Credit section of this guide or visit <https://www.crowleyisdtx.org/Domain/1009> for more information.