

# Transportation, Distribution, and Logistics Career Cluster

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

## Automotive Statewide Program of Study



The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners 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.

### Secondary Courses for High School Credit

#### Level 2

- Automotive Basics

#### Level 3

- Automotive Technology I Dual Credit

#### Level 4

- Automotive Technology II Dual Credit

### Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"><li>Join SkillsUSA</li></ul>	<ul style="list-style-type: none"><li>Work at a local automotive repair or body shop</li></ul>

### Postsecondary Opportunities

#### Associates Degrees

- Autobody/ Collision and Repair Technology/ Technician
- Medium/Heavy Vehicle and Truck Technology/ Technician
- Mechanical Engineering/ Mechanical Technology/ Technician

#### Bachelor's Degrees

- Mechanical Engineering/ Mechanical Technology/ Technician

#### Master's, Doctoral, and Professional Degrees

- Mechanical Engineering

### Industry-Based Certifications

- ASE Entry Level Automobile Maintenance and Light Repair (MR)
- ASE Entry-Level Automobile Engine Repair (ER)



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Technician and Mechanics	\$38,459	5,557	18%

# COURSE INFORMATION

COURSE NAME	COURSE NUMBER AND CREDITS	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Automotive Basics	8720 (1 credit)	admission criteria in the student handbook	10
Automotive Technology I Dual Credit	8721-6 and 8721DC (2 credits)	Auto Basics and SWTJC requirements	11
Automotive Technology II Dual Credit	8722-6 and 8722DC (2 credits)	Automotive Technology I and SWTJC requirements	12

## COURSE DESCRIPTIONS

### Automotive Basics:

Students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students will gain basic knowledge of modes of transportation including air, rail, roads, water, cable, pipeline, and space. Safety regulations will be explored through OSHA.

### Automotive Technology I Dual Credit:

College Credits: AUMT 1407, 1410, & 2417

Students will be given hands-on activities ranging from simple automotive maintenance to using automotive software and equipment in order to understand the inner working of vehicles. Students will get real world experience in the automotive field.

### Automotive Technology II Dual Credit:

College Credits: AUMT 1416, 1445, & 2434

Students gain advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students will visit dealerships in San Antonio and will ask questions to see real life work in progress. Students will work toward earning certification in one or more areas.

**Courses in yellow are advanced courses for endorsement purposes.**

