

# AUTO - DRIVETRAIN AND CHASSIS - ASSOCIATE IN SCIENCE

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This course of study provides significant training and applicable skills development for future employment as automotive service technicians. Topics include: brakes, transmission, drivetrain, air conditioning, suspension, steering, and body chassis electrical systems. Students will acquire and demonstrate skills using classroom, lab, and on-line vehicle diagnostic/repair simulations using specialized test equipment and service literature that is consistent with industry practices. Students will also execute safe, proper, and ethical work practices. Students must complete each major requirement course and major elective course with a grade of "C" or better.

## Program Learning Outcomes

- Demonstrate knowledge of shop hazards safe practices in an automotive repair environment.
- Demonstrate the ability to diagnose, inspect, measure, and repair transmission, drivetrain, AC, brake and suspension systems in a competent and professional manner.
- Apply basic electrical principles to the repair of Chassis and Drivetrain systems.

## Major Requirements

Course	Title	Units
AUTO 102	Automotive Systems	3.5
AUTO 103	Light Line Technician	2
AUTO 105	Suspension, Steering, and Alignment	3
AUTO 106	Automotive Brake Systems	2
AUTO 119	Introduction to Engine Performance	2.5
AUTO 120	Automatic Transmission Systems	2.5
AUTO 121	Manual Transmission and Drivetrain Systems	2
AUTO 135	Air Conditioning Systems	2
AUTO 170	Electrical Systems	3
AUTO 171	Engine Systems	2.5
AUTO 172	Chassis and Drivetrain Systems	2.5
AUTO 173	Automotive Service Operations	2
AUTO 174	Body & Chassis Electronics	2

## Total Requirements

Course	Title	Units
	Major Requirements	31.5
	Major Electives (any AUTO course not listed above)	5
	General Education Requirements	24
<b>Total Units</b>		<b>60.5</b>