

**ASSOCIATE IN SCIENCE**
**2018-2019**
**AUTOMOTIVE TECHNOLOGY, ELECTRICAL-ENGINE PERFORMANCE**

This program provides significant state of the art training and applicable employment skills in the following ASE certification topics: Electrical, Engine Performance, Advanced Engine Performance. Also provides training and preparation for CA state emissions inspection license. Students must complete each major requirement course with a grade of "C" or better to be awarded the degree in Automotive Technology.

Program Learning Outcomes:

- Recognize, diagnose, and repair faults in the following systems: Starting, charging, lighting, instrumentation, climate control, safety, navigation, communication, fuel, ignition, valvetrain, throttle, emissions, powertrain, and stability.
- Demonstrate skills using online vehicle diagnostic/repair information and specialized test equipment that is consistent with industry standards.
- Execute safe, proper, and ethical work practices

AUTO	102	Automotive Systems	3.5
AUTO	103	Light Line Technician	2.0
AUTO	118	Fuel Systems/Emission Controls	3.0
AUTO	119	Introduction to Engine Performance	2.5
AUTO	122	Advanced Electrical	3.0
AUTO	125	Automotive Electronics	2.0
AUTO	127	Ignition Systems	3.0
AUTO	129	DSO, GDMM, Scan Tool Diagnosis	1.5
AUTO	133	Computerized Engine Management	2.5
AUTO	138	Occupational Work Experience	1.0
AUTO	141*	Clean Air Car Course	5.0
AUTO	145	Enhanced Emission Diagnostics Level 2	2.0
AUTO	170	Electrical Systems	3.0
AUTO	171	Engine Systems	2.5
AUTO	172	Chassis and Drivetrain Systems	2.5
AUTO	173	Automotive Service Operations	2.0
AUTO	202	Bugged Vehicle Diagnostics	1.5
		Major Requirements	42.5
		G.E. Requirements	<u>24.0</u>
		<b>Total units</b>	<b>66.5</b>

\*California Apprenticeship requires a grade of "B" or better for this course