

## Hybrid and Electric Vehicle Technology

### Overview

#### Career Studies Certificate

**PURPOSE:** This curriculum is designed to meet the need for automotive technicians with education in the advanced technologies used on current vehicles. Such advanced technologies include electric, plug-in hybrid, and fuel cell electric vehicles, as well as the advanced control systems used on these and other advanced vehicles. The program provides instruction on the theory of operation, application, and diagnosis of the systems used in these vehicles.

**OCCUPATIONAL OBJECTIVES:** Auto Mechanic, State Safety Inspector, Service Advisor, Maintenance Technician, Parts Clerk, and Service Writer

**ADMISSION REQUIREMENTS:** General college curricular admission

**PROGRAM NOTES:** To enroll in this program, students must have the following background or the program head's approval: (1) experience in the automotive repair field and (2) completion of AUT 241 – Automotive Electricity I, AUT 242 – Automotive Electricity II, and AUT 245 – Automotive Electronics. Students interested in entering this program are required to meet with the program head before registering for their first semester.

### Roadmap

Order	Course	Title	Credits
1	AUT 230	Introduction to Alternative Fuels and Hybrid Vehicles	3
2	AUT 243	Automotive Control Electronics	4
3	<sup>1</sup> ———	Humanities/Social Science Electives	3
4	AUT 253	Electric Vehicles	4
5	AUT 254	Plug-In Hybrid Vehicles	4
6	AUT 256	Fuel Cell Electric Vehicles	4
<b>TOTAL</b>	<b>Hybrid and Electric Vehicle Technology Career Studies Certificate</b>		<b>22</b>

03.03.20

<sup>1</sup> PHI 220, PHI 225, ECO 120, PSY 200, SOC 200