



## Certificate Plan of Study

*Anticipated Launch Autumn 2018*

### **AUTO2360 Advanced Electrical Systems: Diagnosis and Repair**

This course continues the study of automotive electrical systems building on information and skills obtained in AUTO 1160 and AUTO 1260. Accessory system diagnosis, live-car servicing, supplemental restraints systems, and various body control computer systems will be emphasized.

### **AUTO2380 Advanced Engine Performance: Diagnosis and Repair**

This course continues the study of automotive engine performance systems building on information and skills obtained in AUTO 1180 and AUTO 2280. System diagnosis, live-car servicing, and various manufacturer's computer control systems will also be explored through lecture and lab activities.

### **AUTO 2190 Hybrid Vehicles: Theory and Operations**

This course presents the theory and operation of hybrid vehicles. This is an informative course designed to provide a general overview of various hybrid vehicle systems. Proper safety precautions and procedures needed to service the basic systems of hybrid vehicles will be discussed.

### **AUTO 2390 Advanced Hybrid Vehicles: Diagnosis and Repair**

This course builds on the fundamentals covered in AUTO 2190 and continues the study of automotive engine performance and electrical systems. Hybrid, plug-in hybrid, and electric vehicles will be emphasized. System safety, diagnosis, live car servicing, and various manufacturer's systems will be explored through lecture and lab activities. An expected outcome of AUTO 2390 should be students are prepared to pass the ASE Light Duty Hybrid/Electric Vehicle Specialist Test (L3).

### **AUTO 2391 Alternative Fueled Vehicles: Diagnosis and Repair**

Compressed natural gas (CNG), hydrogen fuel cell, propane, bi-fuel, liquefied natural gas, ethanol and biodiesel vehicles will be explored. System safety, fueling, diagnosis, live car servicing, and various manufacturer's systems will be explored through lecture and lab activities. An expected outcome of AUTO 2391 should be students are prepared to pass the ASE Alternative Fuels Certification Test (F1).



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