

# AUT 281 : HYBRID ELECTRIC VEHICLES II

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## Transcript title

Hybrid Electric Vehicles II

## Credits

4

## Grading mode

Standard letter grades

## Total contact hours

80

## Lecture hours

20

## Lab hours

60

## Prerequisites

AUT 206.

## Recommended preparation

AUT 280.

## Course Description

A study of HEV (hybrid electric vehicles) and EV (electric vehicles) part 2. Safety procedures will be strongly emphasized. Vehicle systems that will be covered include: Hybrid safety and service procedures, advanced hybrid batteries testing and service, advanced testing of hybrid electric motors, generators, and controls along with extensive manufacturer scan tools use and vehicle testing.

## Course learning outcomes

1. Describe and apply proper hybrid/electrical vehicle safety and service procedures.
2. Describe and conduct testing procedures for advanced hybrid batteries.
3. Perform advanced testing of hybrid electric motors, generators, and controls.
4. Perform diagnostic Scan Tool testing of hybrid / electric vehicles.