

# AUT 111 : COMPUTERIZED ENGINE CONTROLS

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## Transcript title

Computerized Engine Controls

## Credits

5

## Grade mode

Standard letter grades

## Contact hours total

110

## Lecture hours

20

## Lab hours

90

## Prerequisites

AUT 205.

## Description

Studies advanced electrical systems found on late-model vehicles. Provides solid understanding of computerized automotive engine control systems and how they operate and the ability to diagnose, troubleshoot and repair computerized engine control systems.

## Learning outcomes

1. Perform a thorough pre-diagnostic engine inspection.
2. Analyze vehicle performance with the On Board Diagnostic Systems.
3. Measure parameters of all input and output devices used within a computerized engine control system.
4. Analyze, diagnose, and repair computer-controlled engine systems using frequency, pulse width, voltage, resistance, current, and duty cycle to interpret engine control systems in relationship to time; engine speed; and air temperature, pressure, and volume.
5. Demonstrate safety standards in all work within and automotive shop environment and specifically with computer controls.