Department:

Automotive Technology

Course Description:

This course provides current information to develop the skills needed to diagnose and fix drivability problems. The course will cover OBD I and OBD II diagnosis as well as computerized power-train systems.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Complete work orders and check history.
2. Identify engine mechanical integrity.
3. Explain the fundamentals of fuel system theory.
4. Identify fuel system concerns.
5. Explain the fundamentals of ignition theory.
6. Identify ignition system concerns.
7. Identify induction system concerns.
8. Identify exhaust system concerns.

Course Content:

A. General Engine Diagnosis
B. Computerized Engine Controls Diagnosis and Repair
C. Gasoline and Alternative Fuels
D. On Board Diagnosis
E. Ignition System Components and Operation
F. Ignition System Diagnosis and Service
G. Fuel, Air Induction, and Exhaust Systems Diagnosis and Repair

Learning Assessments:

Assessments may include quizzes, tests, project work, demonstrations, observations, weekly assignments, and written papers.

Instructional Materials:


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Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students must complete the “Disabilities Self-Identification Form” at this link: https://highlandcc.edu/pages/disability-services.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.