Department:

Automotive Technology

Course Description:

This course is designed to provide advanced knowledge of various parts of chassis work, such as wheel alignment, wheel balancing, and suspension systems operation and repair. The course will also cover pre-alignment inspections and complex repairs of wheel and tire systems.

Course Competencies:

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

1. Document complex suspension systems concerns.
2. Perform complex diagnostics of steering systems.
3. Perform complex repairs of steering systems.
4. Perform complex diagnostics of suspension systems.
5. Perform complex repairs of suspension systems.
6. Perform pre-alignment inspection and necessary actions.
7. Perform complex diagnostics of wheel and tire systems.
8. Perform complex repairs of wheel and tire systems.

Course Content:

A. General Suspension and Steering Systems Diagnosis
B. Steering Systems Diagnosis and Repair
C. Suspension Systems Diagnosis and Repair
D. Related Suspension and Service Topics
E. Wheel Alignment Diagnosis, Adjustment, and Repair
F. Wheel and Tire Diagnosis and Service

Learning Assessments:

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

Instructional Materials:

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.