DEPARTMENT: Automotive Technology
CURRICULUM: Auto Body Collision Repair
COURSE TITLE: Mechanical Systems
COURSE NUMBER: ABR 183
TYPE OF COURSE: Vocational Preparatory
COURSE LENGTH: 2 weeks
CREDIT HOURS: 3
LECTURE HOURS: 15
LAB HOURS: 35
CLASS SIZE: 20
PREREQUISITES: None

COURSE DESCRIPTION:

This module focuses on the repairing of a vehicle involved in a collision, often involving removing mechanical parts, which include suspension, steering, drivetrain and engine parts. Services of mechanical parts may be necessary. Some areas require collision repair technicians to be certified to perform mechanical repairs.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Critical Thinking - Thinking critically in evaluating information, solving problems and making decisions.
2. Technology - Select and use appropriate technological tools.
ABR 183 Mechanical Systems

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Understand safety practices used on vehicles with restraint systems, air conditioning systems repair and maintenance.
2. Inspect exhaust systems, describe the guidelines for working on an emission control systems.
3. Differentiate between drive train and suspension problems and those caused by a bad ev joint.
4. Successfully pass the certification requirements.

TOPICAL OUTLINE:

<table>
<thead>
<tr>
<th>I. Power train</th>
<th>APPROX. HOURS</th>
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<tbody>
<tr>
<td>II. Cooling systems</td>
<td>6</td>
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<tr>
<td>III. Drive train and service</td>
<td>6</td>
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<tr>
<td>IV. Brake systems and anti-lock brake systems</td>
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<tr>
<td>V. Power steering systems</td>
<td>6</td>
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<tr>
<td>VI. Air conditioning systems</td>
<td>6</td>
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<tr>
<td>VII. Emission control systems</td>
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<tr>
<td>VIII. Emission control systems and service</td>
<td>6</td>
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<tr>
<td>Total</td>
<td>50</td>
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REVISED BY: Steve Ford
DATE: February 2012