HIGHLAND COMMUNITY COLLEGE

Syllabus

ACR135 Airbrush, Fiberglass, & Pinstriping
3 Credit Hours (Lecture & Lab)
Prerequisites: None
C & I Revision Date: 12/14/2025

Department:

Automotive Collision and Refinishing Technology

Course Description:

Enhance skills in Auto Collision Repair through creating detail and unique products using airbrush and pinstriping techniques and fiberglass fabrication.

Course Competencies:

The learning outcomes and competencies detailed in this syllabus meet or exceed the learning outcomes and competencies specified by the Postsecondary Technical Education Authority (TEA) for this course as approved by the Kansas Board of Regents.

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

1. Demonstrate safe painting practices and use of protective clothing and equipment
2. Perform surface preparation techniques.
3. Inspect, adjust, and set up stray gun equipment.
4. Determine types and color of paint; analyze surface materials to be painted.
5. Mix and match paint color.
6. Apply paint on test panel; check for color match.
7. Apply finish using appropriate techniques.
8. Denib, buff, and polish finishes where necessary.
9. Identify paint defects
10. Identify sand marks and tape tracking; correct the condition
11. Clean body openings
12. Remove overspray
13. Apply decals and miscellaneous exterior trim
14. Demonstrate polishing techniques

Course Content:

A. Introduction
    1. Review paint techniques
    2. Shop Safety and Efficiency
        a. Shop Accidents
        b. Personal Safety
        c. General Shop Safety Procedures

B. Airbrush
    1. Identifying and Proper Use of Tools and Equipment
    2. Paint types, viscosities
    3. Surface Preparation
    4. Using the Three Major Techniques
        a. Free Hand
        b. Loose Masking

c. Stenciling

C. Pinstriping
   1. Identifying and Proper Use of Tools and Equipment
   2. Paint
      a. Surface Preparation
      b. Using Additives
   3. Practice techniques
      a. Using the Straight Line
      b. Using the C Curve
      c. Using the S Curve
   4. Design
      a. Design Artwork
      b. Laying Out Design
      c. Lining Actual Design

D. Fiberglass
   1. Identify fiberglass materials
   2. Create molds
   3. Prepare fiberglass and apply to molds
   4. Finish fiberglass product and pain

Learning Assessments:

Assessments may include quizzes, tests, project work, demonstrated competence, instructor observation, weekly assignments and/or written papers.

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Instructional Materials:

Textbook: Duffy, J.E. (2015). Auto Body Repair Technology. (6th ed.). Boston, MA: Cengage Learning. ISBN: 9781133702856.

Textbook: Duffy, J.E. (2015). Tech Manuel for Duffy's Auto Body Repair Technology. (6th ed.). Boston, MA: Cengage Learning. SBN: 9781133702863.

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" on our Disability Services website.

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.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the

Vice President for Student Services, the Human Resources Director or complete an online report about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our Equity Grievance Policy.