

Department:

Auto Collision Repair

Course Description:

This course is designed to enhance skills in auto collision repair through creating detail and unique products using airbrush and pin striping techniques and fiberglass fabrication.

Course Competencies:

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 spray gun equipment.
4. Determine types and color of paint and identify surface materials.
5. Mix and match paint color.
6. Apply paint on test panel and 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 and 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. Pin Striping
 - 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 Art Work
 - 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 Paint

Learning Assessments:

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

Instructional Materials:

Auto Body Repair Technology, James E. Duffy, NATEF, 5th Edition. ISBN: 9781418073534

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.

On-Campus Students: At enrollment, any on campus student may complete a form that will allow them to self-identify any disability.

Off-Campus Regional Students: Self-identify your disability and accommodation needs with the Regional Coordinator and/or instructor, preferably prior to the first class meeting.

Online Students: Self-identify your disability and accommodation needs by contacting the Disabilities Coordinator. Students must provide their own programs to allow accessibility on their home computer.

Any student may also identify their disability by completing an online form located on the HCC homepage under Students Services/Resources/Disabilities. Questions should be directed to the Disabilities Coordinator.