



El Camino College
COURSE OUTLINE OF RECORD – Official

Subject:	ACRP
Course Number:	10L
Descriptive Title:	Skill Building Lab Experience 1
Division:	Industry and Technology
Department:	Automotive Collision Repair/Painting
Course Disciplines:	Automotive Collision Repair/Painting
Catalog Description:	This lab-only course provides additional time and training for first-semester auto collision students to master basic hands-on collision repair skills including removing and installing vehicle parts, diagnosing and repairing damaged electrical circuits, repairing plastic parts, preparing and masking vehicles for paint, and final detailing vehicle exteriors.
Prerequisite:	
Co-requisite:	ACRP 4A
Recommended Preparation:	
Enrollment Limitation:	
Hours Lecture (per week):	0
Hours Laboratory (per week):	6
Outside Study Hours:	0
Total Course Hours:	108
Course Units:	2
Grading Method:	Letter Grade and Pass/No Pass
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	Fall 2026
Transfer UC:	No
Effective Date:	
General Education ECC:	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	

Student Learning Outcomes:	Upon completion of this course, students will be able to: 1. Remove and install a front bumper cover and detrim a door without losing, breaking, or damaging parts. 2. Perform one- and two-sided repairs to plastic parts such as bumper covers using plastic welding, nitrogen welding, or adhesive repair methods. 3. Prep sand pre-painted metal parts without penetrating the clearcoat, scuff new plastic and metal parts, and mask a vehicle for refinishing.
Course Objectives:	1. Complete a comprehensive automotive collision repair/painting safety test with 100% accuracy 2. Identify and use hand, pneumatic, electric and hydraulic tools used in industry 3. Select and use appropriate personal protective equipment suitable for collision repair 4. Access and navigate computerized collision repair service information 5. Remove and install vehicle parts, trim and hardware in an organized and non-destructive manner 6. Diagnose and repair damaged electrical circuits 7. Remove, repair, and reinstall damaged plastic parts 8. Scuff or sand pre-painted and new panels for refinishing 9. Mask a vehicle for refinishing 10. Final detail the exterior of a vehicle and utilize a quality control checklist
Major Topics:	I. Lab safety and personal protective equipment (1 hours, lab) a. Lab, equipment, and chemical safety b. Personal protective equipment (PPE) II. Auto collision repair tools (6 hours, lab) a. Hand tools b. Pneumatic tools c. Electric tools d. Hydraulic tools III. Using collision repair service information (6 hours, lab) a. Original equipment manufacturer (OEM) repair standards and position statements b. Using online repair service information IV. Removing and installing vehicle parts (20 hours, lab) a. Hardware types b. Clips and fasteners c. Bag and tag procedure d. Panel alignment V. Electrical circuits (9 hours, lab) a. Locating and diagnosing damage

	b. Repairing damage VI. Plastic parts repair (16 hours, lab) a. Dent removal b. Plastic welding c. Repair adhesives VII. Prep sanding techniques for refinishing (12 hours, lab) a. Pre-painted parts b. New metal parts c. New plastic parts VIII. Vehicle masking (16 hours, lab) a. Masking for priming vehicle exteriors b. Masking for painting jambs c. Masking for painting and blending exterior panels IX. Final detailing (22 hours, lab) a. Wash bay b. Nib and polish c. Color sand and buff d. Quality control checklist
Total Lecture Hours:	0
Total Laboratory Hours:	108
Total Hours:	108
Primary Method of Evaluation:	3) Skills demonstration
Typical Assignment Using Primary Method of Evaluation:	Locate damage in an electrical circuit using visual inspection and a digital multi-meter. Diagnose the problem and make the repair using proper tools and techniques. Protect the repair from corrosion. Take pictures of each completed step, upload them to your journal, and show your repair results to the instructor for feedback.
Critical Thinking Assignment 1:	De-trim a door using bag-and-tag organization. Explain to the instructor why taking the time to package and label small parts saves time in a collision repair shop.
Critical Thinking Assignment 2:	Given a de-trimmed vehicle and working in groups of two, each student will mask a door jamb. One student will use folded tape, the other will not. Use aerosol spray paint to test the quality of the masking and compare the results. Prepare a case for or against using folded tape in a body shop and verbally present it to the instructor. Take into consideration materials cost, time to perform, environmental waste, and paint quality.
Other Evaluation Methods:	Journal kept throughout course
If Other:	
Instructional Methods:	Demonstration, Discussion, Group Activities, Lab

If other:	
Work Outside of Class:	Course is lab only - minimum required hours satisfied by scheduled lab time
If Other:	
Up-To-Date Representative Texts:	No textbook required.
Alternative Texts:	
Required Supplementary Readings:	
Other Required Materials:	Safety glasses, dust mask, hearing protection, digital camera or smart phone
Requisite	Corequisite
Category	program
Requisite course:	ACRP 4A
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	ACRP 4A - Complete a comprehensive automotive collision repair/painting safety test with 100% accuracy. ACRP 4A - Identify and use hand, pneumatic, electric and hydraulic tools used in industry.
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill(s). if applicable	
Requisite course:	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	
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Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Pati Fairchild
Date:	09/29/2024

Original Board Approval Date:	11/18/2025
Effective Term:	Fall 2026