

SYLLABUS

DATE OF LAST REVIEW: 09/2019

CIP CODE: 47.0603

SEMESTER: Departmental Syllabus

COURSE TITLE: Cosmetic Auto Body

COURSE NUMBER: ACRT0110

CREDIT HOURS: 2

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

E-MAIL: KCKCC Issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): None

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, <http://www.kckccbookstore.com/>, for the required texts for your particular class.

COURSE DESCRIPTION: This is a continuing education class dealing with small collision and rust repair. Learn basic welding, safety and auto body techniques concerning dents, plastic fillers and rust repair, sanding techniques, and hands-on training

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Preparation
- II. Outer Body Panel Repairs, Replacements, and Adjustments
- III. Metal Finishing and Body Filling
- IV. Metal Welding and Cutting
- V. Plastics and Adhesives

EXPECTED LEARNER OUTCOMES:

- A. The student will be able to explore the components of safety pertaining to auto collision and repair
- B. The student will be able to identify metal straightening techniques
- C. The student will be able to identify the application and use of body fillers
- D. The student will be able to demonstrate proper use, set-up and storage of welding equipment
- E. The student will be able to identify plastics and adhesives used in automotive industry

COURSE COMPETENCIES:

Upon successful completion of this course:

The student will be able to explore the components of safety pertaining to auto collision and repair

- 1. The student will be able to identify safety standards for the collision repair industry
 - a. Identify safety equipment
 - b. Identify hazardous materials related to the collision repair industry
 - c. Identify and take necessary precautions with hazardous operations and materials according to federal, state, and local regulations.
 - d. Identify safety and personal health hazards according to OSHA guidelines and the Right to Know Law.

The student will be able to identify metal straightening techniques

- 2. The student will be able to determine the extent of direct and indirect damage and direction of impact; develop and document a repair plan.
- 3. The student will be able to remove paint from the damaged area of a body panel.
- 4. The student will be able to locate and reduce surface irregularities on a damaged body panel.
- 5. The student will be able to demonstrate hammer and dolly techniques.
- 6. The student will be able to determine the proper metal finishing techniques for aluminum.
- 7. The student will be able to determine the extent of damage to aluminum body panels; repair or replace.

The student will be able to identify the application and use of body fillers

- 8. The student will be able to remove paint from the damaged area of a body panel.
- 9. The student will be able to locate and reduce surface irregularities on a damaged body panel.
- 10. The student will be able to demonstrate hammer and dolly techniques.
- 11. The student will be able to mix body filler.
- 12. The student will be able to apply body filler; shape during curing.
- 13. The student will be able to rough sand cured body filler to contour; finish sand.

The student will be able to demonstrate proper use, set-up and storage of welding equipment

14. The student will be able to determine the correct GMAW (MIG) welder type, electrode, wire type, diameter, and gas to be used in a specific welding situation.
15. The student will be able to set up and adjust the GMAW (MIG) welder to "tune" for proper electrode stickout, voltage, polarity, flow rate, and wire-feed speed required for the material being welded.
16. The student will be able to store, handle, and install high-pressure gas cylinders.
17. The student will be able to determine work clamp (ground) location and attach.
18. The student will be able to identify different methods of attaching non-structural components (squeeze type resistant spot welds (STRSW), riveting, non-structural adhesive, silicon bronze, etc.)

The student will be able to identify plastics and adhesives used in automotive industry

19. The student will be able to identify the types of plastics; determine repair ability.
20. The student will be able to identify the types of plastic repair procedures; clean and prepare the surface of plastic parts.

ASSESSMENT OF LEARNER OUTCOMES:

Student progress is evaluated by means that include, but are not limited to, exams, written, assignments, and class participation.

SPECIAL NOTES:

Caveats:

1. Safety glasses with side shields are required to be worn during lab activities for this course. This is in compliance with accepted eye protection practices and Kansas State Law (K.S.A. 72-5207). Safety glasses must meet American National Standards Institute Z87.1 specifications. (NOTE: Most prescription eyewear does not meet ANSI Z87.1. Students who wear prescription glasses must: a) Provide evidence that existing eyewear meets ANSI Z87.1, or b) Wear cover goggles (if allowable), or c) Purchase and wear ANSI Z87.1 prescription eyewear.
2. Lab Guidelines: In order to assist with the safe and efficient operation of the automotive lab area, students are expected to be familiar with and adhere to the Automotive Student Lab Guidelines.

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student's progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed

to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college's policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of Academic Resource Center, in Rm. 3354 or call at: 913 288-7670 V/TDD.

All enrolled students at Kansas City Kansas Community College are subject to follow all rules, conditions, policies and procedures as described in both the Student Code of Conduct as well as the Student Handbook. All Students are expected to review both of these documents and to understand their responsibilities with regard to academic conduct and policies. The Student Code of Conduct and the Student Handbook can be found on the KCKCC website.

