SOUTHEAST COMMUNITY COLLEGE
TRANSPORTATION OCCUPATIONS
AUTO COLLISION REPAIR TECHNOLOGY
COURSE SYLLABUS
January 5, 2024

I. CATALOG DESCRIPTION

Course Number: AUTB1153
Course Title: Collision Repair & Refinish Lab I
Co-Requisite(s): AUTB 1151, AUTB 1152

Catalog Description: Practice in basic metal repair fundamentals as it relates to the repair of non- structural automobile body panels. Repair on non-structural automobile body panels is done to replicate real world repairs. Automobile body panel alignment on vehicles to ensure quality repairs required to collision repair industry standards.

Credit Hour: 4.5
Class Hours: 8
Lab Hours: 180
Total Contact Hours: 188

II. COURSE OBJECTIVES: *Course will:*

- **A.** Cover the hands-on process with the proper usage of various hand tools and their place in the repair process.
- **B.** Cover the proper use of the power tools that they will be utilizing during a typical repair.
- **C.** Cover the preventive maintenance procedures of the tools and equipment used in collision repair.
- **D.** Cover the safety aspects of each tool and piece of equipment used in the collision repair industry.
- **E.** Cover repairing vehicles by metal finishing damaged panels.
- **F.** Cover replacing body panels on the automobile.
- **G.** Cover realigning body panels on the automobile.
- **H.** Cover applying filler materials.
- **I.** Cover shape filler materials.
- **J.** Cover finish filler materials.
- **K.** Cover preparing repair areas for priming.
- **L.** Cover block sand repair areas.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARING OUTCOMES

A. STUDENT LEARNING OUTCOMES: *The student will be able to:*

1. Select the proper tools and equipment used to make repairs to a collision damaged vehicle.
2. Determine proper maintenance procedures and time intervals and when the tool needs repair.
3. Develop the ability to identify and repair all damages according to factory recommendations using various types of repair processes.
4. Clean and prepare vehicles for delivery following the repair process including, choosing type of material needed for project completion.

5. Work with other classmates to keep the shop in an organized manner and return tools and equipment to their proper places. This is to prepare the student for a typical workday.
6. Repair vehicles by metal finishing damaged panels.
7. Remove, Install and align body panels on the automobile.
8. Apply, shape and sand filler materials.
9. Block sand repair areas.
10. Remove, install and adjust doors, and door windows including regulators.
11. Use tools and equipment in a safe manner.
12. Follow required guidelines as indicated in the (S.D.S.) Safety Data Sheets.

B. GENERAL EDUCATION LEARNING OUTCOMES:

GELO #3: Critical Thinking & Problem Solving

Outcomes:

1. Collect, identify, interpret and analyze data.
2. Synthesize information to arrive at reasoned solutions to problems.
3. Evaluate ideas presented in writing, medial, speech, or artistic presentations.
4. Evaluate the validity of arguments, alternatives, data, outcomes, and/or impacts of actions.
5. Acquire and integrate knowledge and construct relationships across disciplines.

IV. CONTENT/TOPICAL OUTLINE

A. Course introduction

B. Repair procedures (Hands-on)

V. INSTRUCTIONAL MATERIALS

Required Text(s): The current text(s) required for this class are available in the campus bookstore.

Student Required Material: Pen or pencil
Required tools

VI. METHODS OF PRESENTATION

A. Methods of presentation typically include a combination of the following:

1. Lecture
2. Small and large group discussion
3. Video presentation
4. Transparencies
5. Demonstrations
6. Project boards
7. Flip charts
8. Handouts
9. Observations
10. Assigned lab projects
11. Field trips

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of the following:

1. Notebook (if required)
2. Quizzes
3. Tests
4. Lab grades
5. Attendance/class conduct

Letter grades will be based on the SCC Standard Grade Scale Policy. **Note:** See course information document for specific details on how the course grades will be calculated.

VIII. SPECIFIC COURSE REQUIREMENTS

A. Student must:

1. Complete all tests, projects, assignments, and notebook (if required).
2. Earn a final grade of 60% or higher.

B. Attendance:

1. Student must follow the Attendance Policy as stated in the college student handbook and the Auto Collision Repair Technology Attendance Policy.

C. Program shop safety rules will be followed.

D. Please see the course information document for any additional safety rules established by the instructor.