SOUTHEAST COMMUNITY COLLEGE
TRANSPORTATION OCCUPATIONS
AUTO COLLISION REPAIR TECHNOLOGY
COURSE SYLLABUS
October 3, 2024

I. CATALOG DESCRIPTION

Course Number: AUTB2353
Course Title: Collision Repair Laboratory lll
Prerequisite(s): AUTB 1254, AUTB 1256

Catalog Description: Assigned training projects will include following repair estimates being evaluated by the quality of work and the time taken to complete assigned training projects.

Credit Hour: 5.5
Classroom Hours: 0
Lab Hours: 248
Total Contact Hours: 248

II. COURSE OBJECTIVES: *Course will:*

A. Cover various techniques of working with and repairing damaged automotive sheet metal and plastics.
B. Cover plastic and composite repair procedures that they will be utilizing during the repair process.
C. Cover panel replacement and proper fitting and adjustment.
D. Cover removal and installation of windshields, and back glass in various vehicles including removal and installation of moldings.
E. Cover installing, adjusting and aligning door glass and other moveable glass projects will be assigned as available.
F. Cover corrosion repairs and the welding or gluing required in performing these repairs.
G. Cover performing repairs around undamaged areas using caution not to cause damage to that area.
H. Cover confining the repair area to minimize the refinishing area.
I. Cover the advanced rough out techniques on more severe damages.
J. Cover using the repair estimate to more accurately guide them on what needs to be done.
K. Cover mechanical repair procedures that they will be utilizing during the repair process in accordance to manufacturers recommendations. Examples: (radiator, engine mounts) Electrical repair procedures that they will be utilizing during the repair process in accordance to manufacturers recommendations. Examples: (headlamp aiming, steering column repairs, dash panel replacement)
L. Cover safety consciousness in each individual through the students understanding of the equipment.
M. Cover preparing vehicles for delivery following the repair process including, choosing type of material needed for project completion.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

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

1. Perform many types of collision damage repairs and must meet industry standards in quality.

2. Remove and install windshields, and back glass in various vehicles including removal and installation of moldings.

3. Remove, Install, adjust and align door glass and other moveable glass projects will be assigned as available.
4. Estimate projects and all projects selected so student will meet basic industry standards.
5. Determine the proper cosmetic repair procedures that they will be utilizing during the repair process in accordance to manufacturers recommendations.
6. Determine the proper plastic and composite repair procedures that they will be utilizing during the repair process.
7. Determine the proper mechanical repair procedures that they will be utilizing during the repair process in accordance to manufacturers recommendations. Examples: (radiator, engine mounts)
8. Determine the proper electrical repair procedures that they will be utilizing during the repair process in accordance to manufacturers recommendations. Examples: (headlamp aiming, steering column repairs, dash panel replacement)
9. Clean and prepare vehicles for delivery following the repair process including, choosing type of material needed for project completion.
10. Approach industry standards in speed of the repair as indicated in estimating repair guides.
11. 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.

B. GENERAL EDUCATION LEARNING OUTCOMES:

GELO #3: Critical Thinking & Problem Solving

Outcomes:

1. Collect, identify, interpret and analyze data.
4. Evaluate the validity of arguments, alternatives, data, outcomes, and/or impacts of actions.

IV. CONTENT/TOPICAL OUTLINE

A. Grading procedure
B. Safety
C. Analyzing the damaged area
D. Disassemble damaged or obstructing parts
E. Rough out and straighten damaged areas
F. Replacing damaged parts and making them fit
G. Assemble to complete the repair
H. Follow manufacturers recommendation for corrosion protection application
I. Prepare vehicles for delivery to customer including post repair checks and cleaning of vehicle.
J. Working in a team and how to work with others to accomplish repairs in a timely manner.

V. INSTRUCTIONAL MATERIALS

Required Text(s): Auto Body Repair Technology 6th Edition Text. Copyright 2015 ISBN-13: 978-1133702856, ISBN-10: 1133702856

Other Resources:
Required hand tools
School supplied power tools
School supplied welders
Pushing and pulling devices
Various sand papers and adhesives
Bonding adhesives
OEM and aftermarket replacement parts
Various filling materials
Assigned repair vehicles

Outside Reading/Research Required: Any required research to accomplish the repairs on vehicles as assigned.

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.