

**SOUTHEAST COMMUNITY COLLEGE
TRANSPORTATION OCCUPATIONS
AUTO COLLISION REPAIR TECHNOLOGY
COURSE SYLLABUS
January 8, 2024**

I. CATALOG DESCRIPTION

Course Number: AUTB1256
Course Title: Collision Repair & Refinish Lab II
Prerequisite(s): AUTB 1151, AUTB 1152, AUTB 1153

Catalog Description: Projects will be assigned to students that will include basic metal repair, plastic repair, composite repair, as well as corrosion protection and priming operations with care of vehicle to be taken to ensure customer satisfaction.

Credit Hour: 6.0
Classroom Hours: 15
Lab Hours: 225
Total Contact Hours: 240

II. COURSE OBJECTIVES: *Course will:*

- A. Cover repair, replace, align body panels to industry standards including use of body filler materials.
- B. Identify plastics and select and follow repair processes used.
- C. Cover choosing and applying the correct anti-corrosive application equipment for specific applications.
- D. Cover preparing repair areas for priming.
- E. Cover spot prime repair areas.
- F. Cover block sand repair areas.
- G. Cover final block prime repair areas and complete vehicle to prepare vehicle for painting of color to meet industry safety standards and quality standards.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

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

- 1. Identify terminology used in the Collision Repair industry.
- 2. Understand and how to find information in the Collision Repair Guides.
- 3. Complete a handwritten report/estimate.
- 4. Complete a computer-generated damage report/estimate and also translate the information.
- 5. Replace body panels on the automobile.
- 6. Identify and repair different types of plastics.
- 7. Final prime repair areas.
- 8. Final block prime repair areas and complete vehicle to prepare vehicle for painting of color to meet industry safety standards and quality standards.
- 9. Demonstrate corrosion and describe the common factors involved in rust formation.
- 10. Demonstrate the anti-corrosive materials used to prevent and retard rust formation.

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. Automotive repair procedure
- B. Automotive plastics
- C. Misc. repairs and replacements
- D. Corrosion and corrosion protections
- E. Equipment (usage, types, and safety precautions)
- F. Shop safety

V. INSTRUCTIONAL MATERIALS

Required Text(s):

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

Mitchell Estimating Guide Motor Estimating Guide
Mitchell Computer Estimating Software (Ultramate)

Required Tools:

Hammers
Dollies
Bulls eyes
Screwdrivers
Combination wrenches socket sets
Impact wrench
Air files
DA's
Cutoff tools
Oxyacetylene torch set
MIG welders (110 and 220 Volt)
Glass removal equipment
Metal break
Metal shear

Other Resources:

Computer/multimedia projector
Videos/DVD

Student Required Material:

Notebook
Pen or pencil
Required tools

Outside Reading/Research Required:

Chapters will be assigned according to the class schedule.
I-CAR web site and assigned course work.

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.