

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** AUB 113

**Credits:** 6

**Course Title:** Automobile Body Theory and Shop Practices

**Course Description (including lecture hours, lab hours, total contacts)**

Presents the fundamentals of refinishing and painting automobiles including the techniques of masking, blending and spraying. Covers paint shop layout, management, equipment, and damage estimating. Lecture 3 hours. Laboratory 9 hours. Total 12 hours per week.

**Course Prerequisites/Corequisites** (*Entry-level competencies **required** for enrollment*)

None

**Course Objectives** (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- A. Repair light body damage
- B. Remove and install exterior body parts
- C. Repair heavy body damage
- D. Remove and replace weld-on structural parts
- E. Demonstrate an understanding of the industry specific terminology used throughout the collision world.
- F. Determine when to repair or replace a part or parts.

**Major Topics to be Included**

- 1. Introduction to Body/Paint Shop Work and Safety Procedures**
  - a. Typical Body and Paint Shop Operations
  - b. Shop Safety Practices
  - c. Personal Safety and Health Protection
  - d. General Shop Procedures
- 2. Understanding Automobile Construction**
  - a. Body Shapes
  - b. Construction Types
  - c. Conventional Body-Over-Frame Construction
  - d. Unitized Frame and Body Construction
- 3. Introduction to Damage Report Writing:**
  - a. Design Changes
  - b. New Equipment/Skills
  - c. Insurance Company Procedures
  - d. The Customer
  - e. Tools and Equipment
- 4. Modern Vehicle Construction:**
  - a. Vehicle design: Past and Present

- b. Body Over Frame
- c. Unitized Construction
- d. Automotive Metals
- e. Automotive adhesives

**Effective Date of Course Content Summary (Month, Date Year): 8-1-08**