

**Course Objectives/Course Outline**  
**Spokane Community College**

---

---

**Course Title:** Major Unibody and Frame Repair

**Prefix and Course Number:** ABF 125

---

**Course Learning Outcomes:**

**By the end of this course, a student should be able to:**

- Perform metal working procedures
- Replace automobile glass
- Repair fiberglass
- Perform basic repair and replacement procedures
- Measure and align components

**Course Outline:**

- I. Universal Measuring Systems
  - A. Mechanical Systems
  - B. Laser Systems
- II. Fillers
  - A. Lead
    1. Preparation for application
    2. Applying Lead Solder
    3. Filling Solder
  - A. Plastics
    1. Types and Uses
    2. Repair
    3. Chemical-adhesive Bonding Techniques.
- III. Metal Working
  - A. Techniques
    1. Dollying
    2. Shrinking
    3. Filing Dolly
  - A. High Strength Steel Applications
- IV. Repair and Replacement
  - A. Repair Equipment
    1. Bench Machine
    2. Heavy Pulling Equipment
  - B. Quarter Panel Replacement
  - C. Glass Replacement
    1. Windshield
    2. Back Glass
    3. Quarter Glass
    4. Door Glass

- D. Fiberglass Repair
  - 1. Safety
  - 2. Panels
- E. Dents
  - 1. Pounding Out
  - 2. Raising with Heat
- F. Salvage
  - 1. Types
  - 2. Uses
  - 3. Sources
- V. Accessory Equipment
  - 1. Onboard Computers
  - 2. Seat Belts and Straps
  - 3. Head Liners