

PROGRAM TECHNICAL CORE COURSES

ABR 100 Introduction to Auto Body Repair (3)

This course introduces the student to safety, sanding, grinding, pulling, roughing and filling; the use of tools and equipment; and preparing and priming automotive panels through lectures and demonstrations.

ABR 130 Non-Structural Analysis and Damage Repair (9)

This course gives instruction and provides practical experience in replacing and alignment of bolts on automotive parts such as doors, hoods and fenders; as well as instruction on the repair and replacement of nonstructural weld-on automotive panels by aligning, welding, cutting and drilling through demonstrations and lectures. It will be taught by demonstration and hands-on practice. The skills required are most effectively taught and practiced on live work. The exact content will be influenced by the live work available.

ABR 131 Non-Structural Analysis and Damage Repair Lab (4)

This course is the lab associated with ABR 130 and provides practical experience in replacing and alignment of bolts on automotive parts such as doors, hood, and fenders; as well as instruction on the repair and replacement of non-structural weld-on automotive panels by aligning, welding, cutting and drilling through demonstrations and lectures. It will be taught by demonstration and hands-on practice. The skills required are most effectively taught and practiced on live work. The exact content will be influenced by the live work available. Prerequisites: ABR 130 or concurrent enrollment.

ABR 150 Painting and Refinishing (9)

This course provides instruction in the use of lacquer, acrylic enamel and base coat/clear coat refinishing products, masking procedures, preparations and paint problems. It will be taught by demonstration and lecture. The auto and/or autos being used for live work will determine the exact course content.

ABR 151 Painting and Refinishing Lab (4)

This course is the lab for ABR 150 and provides instruction in the use of lacquer, acrylic enamel, and base coat/clear coat refinishing products, masking procedures, preparations and paint problems. It will be taught by demonstration and lecture. The auto and/or autos being used for live work will determine exact content. Prerequisites: ABR 150 or concurrent enrollment.

ABR 200 Plastics and Adhesives (3)

This course provides instruction on how to repair plastic, fiberglass, SMC and flexible automobile parts. It will be taught by lecture and demonstration. Prerequisite: Permission of instructor.

ABR 230 Structural Analysis and Damage Repair (9)

This course presents instruction on the analysis, repair and replacement of structural panels on unibody automobiles and body and frame alignment on unibody and frame cars. It will be taught by demonstration and lecture.

ABR 231 Structural Analysis and Damage Repair Lab (4)

This course is the lab component and presents instruction on the analysis, repair and replacement of structural panels on unibody automobiles and body and frame alignment on unibody and frame cars. It will be taught through demonstration and hands-on experience. Prerequisites: ABR 230 or concurrent enrollment.

ABR 250 Mechanical and Electrical Components (9)

This course provides instruction in the diagnosis, repair and/or replacement of suspension, steering, electrical, brake, drive train, fuel, exhaust, and restraint systems. The theories and concepts of heating and air conditioning systems will also be discussed and demonstrated. It will be taught by demonstration and lecture and involve live work on automobiles. Prerequisite: Consent of instructor.

ABR 251 Mechanical and Electrical Components Lab (2)

This course is the lab for ABR 250 and provides instruction in the diagnosis, repair and replacement of suspension, steering, electrical, brake, drive train, fuel, exhaust and restraint systems. The theories and concepts of heating and air conditioning systems will also be discussed and demonstrated. It will be taught by demonstration and lecture and involve live work on automobiles. Prerequisites: ABR 250 or concurrent enrollment.

The following courses may be offered as electives with permission from the instructor.

ABR 198 Practicum (1-8)

The practicum provides supervised on-the-job work experience related to the students' education objectives.

Students participating in the practicum do not receive compensation. May be taken for 1-8 credits. Prerequisite: Permission of instructor.

ABR 199 Cooperative Education (1)

Co-op provides supervised on-the-job work experience related to the students' educational objectives. Students participating in the Co-op Education program receive compensation for their work. May be taken for 1-8 credits. Prerequisite: Permission of the instructor.

ABR 291 Special Projects I (1)

This course will be designed for students to satisfactorily complete collision repair tasks or to enhance their skills in the occupational area. Prerequisite: Permission of the instructor.

ABR 293 Special Projects II (2)

This course will be designed for students to satisfactorily complete collision repair tasks to enhance their skills in the occupational area. Prerequisite: Permission of the instructor.

ABR 295 Special Projects III (3)

This course will be designed for students to satisfactorily complete collision tasks to enhance their skills in the occupational area. Prerequisite: Permission of the instructor.

ABR 298 Practicum (2)

The practicum provides supervised on-the-job work experience related to the students' education objectives.

Students participating in the practicum do not receive compensation.

Prerequisite: Permission of the instructor.

ABR 299 Cooperative Education (2)

Co-op provides supervised on-the-job work experience related to the students' educational objectives. Students participating in the Co-op Education program receive compensation for their work. Prerequisite: Permission of the instructor.