

AUTOMOTIVE TRADES: AUTOBODY REPAIR



The Autobody Repair Program prepares students to understand and apply current collision repair methods and technology, including training, in the use of equipment and materials, construction of the automobile body and techniques in autobody repair, rebuilding and refinishing.



AUTOMOTIVE TRADES: AUTOBODY REPAIR

Degree: Associate in Applied Science

HEGIS Code: 5306.0

Curriculum Code: 2452

Campus Location: South

Engineering & Technologies Division

Pre-Admission Recommendations: Math I, one (1) year Science (Chemistry or Physics)

Recommended H.S. Courses and/or Experiences: Geometry, Chemistry

Career Opportunities/Further Education: Autobody Repair Shops, Auto Insurance Estimating Centers

Program Description

The Automotive Trades: Autobody Repair Program prepares students for employment in the automotive industry. Students may study full- or part-time for an Associate Degree in Applied Science day or part-time evening.

The curriculum includes the study of theory as well as practical applications of theory. Students enrolling full- or part-time in the A.A.S. Program take their laboratory work in a fully equipped, up-to-date facility at the South Campus. To be admitted to the program, a student needs to follow the application procedures described in this catalog. Each stu-

dent must have his/her own basic tool kit and will be admitted to laboratory classes only upon satisfying minimum tool requirements. The approximate cost of the tools is \$1,000-\$1,200. A list of the necessary tools will be available to the students during the first week of classes.

Graduates of the Autobody Repair Program will be eligible for advanced degree training and positions as body technicians, painting technicians, body shop managers, collision estimators, and auto appraisers. Graduates will also be eligible for I-CAR Gold Points.

Program Competencies

Upon graduation with an Associate in Applied Science degree in the field of Automotive Trades: Autobody Repair, the student will be able to:

- demonstrate appropriate methods of estimating and developing repair orders/invoices;
- demonstrate effective written and oral communication skills;
- demonstrate universal measuring devices, as well as dedicated fixtures;
- demonstrate proper use of tools;
- properly use various welding techniques;
- demonstrate different methods of frame-straightening;
- demonstrate the application of multiple painting procedures; and
- interpret manufacturer's specifications and perform prescribed procedures from manuals for diagnosis and repair of charging, starting, electrical, and accessory systems; struts, torsion bars, leaf and coil spring suspension systems; air conditioning and heating systems; brake systems and hydraulics, including automatic braking systems.

CURRICULUM

Total Degree Credits: 63.0

First Year, Fall Semester

AB 130 Introduction to Autobody Repair (2 cr)
AB 140 Detailing (2 cr)
AB 150 Autobody Skills I (2 cr)
AB 151 Autobody Skills I Lab (2 cr)
EN 110 College Composition (3 cr)
MT 112 Survey of Mathematics (3 cr)

First Year, Spring Semester

AB 210 Autobody Skills II (2 cr)
AB 211 Autobody Skills II Lab (3 cr)
AB 232 Body Welding (2 cr)
AB 233 Body Welding Lab (2 cr)
AU 130 Suspension, Alignment and Brakes (2 cr)
AU 131 Lab for Suspension, Alignment and Brakes (2 cr)
_____ Natural Science Elective (3 cr)

Second Year, Fall Semester

AB 240 Refinishing (2 cr)
AB 241 Refinishing Lab (3 cr)
AB 242 Estimating & Shop Management (3 cr)
AU 160 Automotive Electrical (2 cr)
AU 161 Lab for Automotive Electrical (2 cr)
EN 111 Composition and Interpretation of Literature (3 cr)
_____ SUNY General Ed. Social Science/Humanities Elective (3 cr)

Second Year, Spring Semester

AB 230 Frame & Unibody Construction & Repair (2 cr)
AB 231 Frame & Unibody Construction & Repair Lab (3 cr)
AU 270 Air Conditioning and Heating (2 cr)
AU 271 Lab for Automotive Air Conditioning and Heating (2 cr)
_____ SUNY General Ed. Elective (3 cr)
_____ SUNY General Ed. Elective (3 cr)

Note: This is a recommended sequence. Students should consult their academic adviser prior to registering.



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Erie Community College deplors such conduct as an abuse of authority. Allegations leading to conviction can result in suspension or termination of employment. Related inquiries should be addressed to: Title IX, ADA and Section 504 Compliance Coordinator, Darley Willis, Director of Equity and Diversity, 851-1119. 1/2017