AUTOMOTIVE COLLISION REPAIR & REFINISHING

Program Description
The Automotive Collision Repair & Refinishing program prepares graduates for employment in the collision repair and refinishing industry. Students receive classroom and hands-on training in vehicle repair procedures and techniques. Students learn to use specialized tools, materials, and techniques to straighten or replace damaged body panels and structural components as well as perform related mechanical and electrical repairs, restraint system repairs, and stationary glass replacement. Students also learn the latest procedures for partial and complete refinishing of an automobile as well as custom painting techniques. Arts & Sciences curriculum supports the technical skills students learn and enhances oral and written communication skills, fundamental math skills, and critical thinking ability.

In addition to the regular technical and Arts & Sciences courses, students complete two summer experiences. The first summer features a production course at the College that focuses on customer vehicle work in the Collision Repair & Refinishing lab. The second summer features either an internship at an approved collision repair facility or another production course on site at the College.

Dunwoody’s programs utilize Inter-Industry Conference on Auto Collision Repair (I-CAR) training materials, and the program is an I-CAR Training Alliance Member. Instructors are certified as master technicians by the National Institute for Automotive Service Excellence (ASE) and are I-CAR Gold Class professionals.

The Automotive Service Excellence (ASE) Education Foundation has accredited Dunwoody’s Automotive Collision Repair & Refinishing Program in Master Automotive Collision Repair and Refinishing—the highest level of achievement recognized by the ASE Education Foundation.

Dunwoody College of Technology: a non-profit, private technical college since 1914.

Credential Earned: AAS Degree
Classes Offered: Day
Length of Program: 2 years (4 semesters + 2 summer sessions)
Available Starts: Fall Semester only; for Fall only starts, students can take Arts & Sciences courses in Spring
Accreditation: ASE Education Foundation
Further Study: Bachelor’s Completion Degree in Applied Management

<table>
<thead>
<tr>
<th>Common Job Titles</th>
<th>Recent Employers</th>
<th>Salary Data</th>
<th>Placement Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detailer</td>
<td>ABRA</td>
<td>$47,960*</td>
<td>100%**</td>
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<tr>
<td>Body Technician</td>
<td>Luther Automotive</td>
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<td>Refinish Technician</td>
<td>Morrie’s Automotive Group</td>
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<td>Paint Prepper</td>
<td>Hepner’s Auto Body</td>
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<td>Estimator</td>
<td>LaMettry’s Auto Body</td>
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Degree Requirements
- ABDY1111 Introduction to Auto Body
- ABDY1120 Panel Replacement I: Bolt on Panels
- ABDY1130 Panel Straightening & Paint Prep
- ABDY1140 Auto Body Welding
- ABDY1150 Plastic Repairs
- ABDY1210 Brake & Suspension Repairs
- ABDY1220 Introduction to Refinishing Metals & Plastics
- ABDY1230 Automotive Refinishing & Detailing
- ABDY1311 Damage Analysis & Estimating
- ABDY1320 Summer Production Repair Lab I
- ABDY2110 Aluminum Welding & Complex Panel Repair
- ABDY2120 Electrical, A/C Repairs & Hybrid Safety
- ABDY2130 Restraint Systems & Stationary Glass
- ABDY2140 Finish Matching & Plastic Refinishing
- ABDY2210 Panel Replacement II: Welded Panels
- ABDY2222 Structural Analysis, Measuring & Repair
- ABDY2231 Custom Painting
- ABDY2320\* Summer Production Repair Lab II
- Natural Sciences/Mathematics Elective
- Communications Elective
- Social Sciences Elective
- Arts & Sciences Elective
- Humanities Elective
- Arts & Sciences Elective

\* Or take ABDY2310 Production II Internship

How to Apply
- dunwoody.edu
- 612.374.5800
- info@dunwoody.edu

**Data reflects placement for AY2016-17 graduates indicating employment in their field of study within 6 months following graduation. Full data calculations are available for review during College open hours Monday through Friday 8 a.m. to 4 p.m. CT at Career Services or contact careerservices@dunwoody.edu.
AY2018-19 Revised: 6.18.18
Course Descriptions

ABDY1110 Aluminum Welding & Complex Panel Repair, 3 cr.

ABDY1120 Electrical, A/C Repairs & Hybrid Safety, 3 cr.
Fundamentals of electricity and related automotive plastics. Prepare interior plastic for refinishing and re-texturing.

ABDY2140 Finish Matching & Plastic Refinishing, 2 cr.
Collision industry procedures used for color matching, tinting and blending. Color theory, panel preparation and practical application of urethane (solvent based) and waterborne automotive paint products utilizing color mixing systems. Procedures, techniques, and materials used in tri-coat (three stage) finish repairs. Specialized products and procedures used to refinish automotive plastics. Identification and refinishing of flexible plastic panels.

ABDY2222 Structural Analysis, Measuring & Repair, 6 cr.
Vehicle collision damage analysis, inspection techniques, damage classification and types of vehicle construction. Measuring concepts, set-up and use of measuring systems, vehicle anchoring systems and structural straightening equipment. Industry (I-CAR) guidelines for structural repairs including frame and unibody straightening, structural component replacement, sectioning and restoring corrosion protection. Disassemble vehicles for repairs, develop a vehicle repair plan, perform structural repairs, including repairs to mechanical and electrical systems as well as replacement of structural glass.

ABDY2231 Custom Painting, 1 cr.
Surface preparation procedures, specialized refinish materials, spray equipment and techniques used for custom painting on vehicle panels or small projects. Materials utilized include standard urethane (solvent-based) base coats, waterborne base coats, candy colors, pearls, and metal flakes. Masking and design transfer techniques for custom painting.

ABDY2320 Summer Production Repair Lab II, 4 cr.
Perform major and minor collision repairs; repair or replace structural members and exterior panels; remove and replace glass and upholstery; suspension and mechanical components; prepare panels for paint; refinish panels or vehicles as necessary. Create computerized repair estimates, discuss repairs with customers, order parts and assist in completion of repair orders for customer billing.

ABDY2310 Production Internship, 4 cr.
This Internship is offered for qualified students who are interested in fulfilling their 2nd year production requirement for the Collision Program via a 216 hour internship rather than participating in ABDY 2230 Production Lab II. Must be able to secure an internship at a collision repair facility and have the approval of the Collision program faculty. A formal agreement will be developed between the student, the employer, and an advisor assigned by Dunwoody. Internship must be approved by the Department Director of Internship Advisor.