Program Overview

The Auto Collision Repair and Refinish Technician program will prepare students to perform repairs on vehicles that have collision damage. This one-year program involves straightening dents, replacing panels, and refinishing the repaired areas. Students will gain hands-on experience by repairing customer vehicles and by working with the latest repair and refinishing equipment.

Special Features

This program uses advanced I-CAR (Inter-Industry Conference on Auto Collision Repair: www.i-car.com) curriculum training modules. The core training program includes:

- Fundamentals of collision repair
- Vehicle identification, estimating, and terminology
- Frontal impact analysis; mechanical systems analysis
- Restraints, interior, glass, and side and rear impact analysis
- Structures damage analysis
- Hazardous materials, personnel safety, and refinishing safety
- Corrosion protection

Student Profile

Auto Collision Repair and Refinish Technician students should be able to:

- Use independent judgment to plan work and select proper tools
- Handle and manipulate tools and equipment
- Have color vision
- Assume responsibility for the quality of their work
- Communicate and relate to customers and co-workers
- Enjoy hands-on mechanical work
- Be a team player
- Be self-motivated

Program Outcomes

Employers will expect Auto Collision Repair and Refinish Technician graduates to be able to:

- Make repairs on plastic, sheet metal, and fiberglass body parts using the appropriate techniques and materials
- Straighten damage to body panels using hand tools and power equipment
- Use MIG welding to repair and replace auto body panels
- Use refinishing equipment to repair and paint vehicles including surface preparation and masking
- Estimate collision damage repair costs
- Color and blend automobile panels
- Adjust/replace bolt-on parts, bumpers, fenders, doors, and hood, etc.
- Diagnose and make electrical repairs
- Restore corrosion protection

Career Outlook

Typical careers available after graduating from the Auto Collision Repair and Refinish Technician program include:

- Auto Body Technician
- Refinishing Technician
- Paint Representative
- Estimator/Insurance Appraiser
- Service Manager/Shop Owner
- Auto Detailer
- Automobile Restoration Technician
- Equipment and Supplies Specialist
- Unibody/Frame Specialist

Curriculum

<table>
<thead>
<tr>
<th>Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>31405302</td>
<td>Auto Collision Estimating</td>
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<tr>
<td>31405303</td>
<td>Auto Collision Repair Welding</td>
<td>2</td>
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<td>31405304</td>
<td>Auto Collision Repair Fundamentals 1</td>
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<tr>
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<td>Math 372</td>
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</table>

PROGRAM REQUIREMENTS 34

▲ This course requires a prerequisite and/or corequisite, and must be completed with a GPA of 2.0 or better.

See page 42 for General Studies course descriptions.

Preparation for Admission

Students should strive to reach a comfort level in the following courses or skills:

- Auto Body Repair and Refinishing
- Basic Mathematics
- Automobile Mechanics
- Machine Shop
- Welding
- Basic English
- Art

Offered at: Rice Lake
### Course Descriptions

(See page 42 for General Studies course descriptions)

31405302  
**Auto Collision Estimating – Credits: 1**  
Provides experience writing damage reports (estimates) on vehicles needing repair. Both manual and computer-generated estimates will be covered. Students will explore flat-rate operations, labor costs, repair and refinishing time, markups, and discounts.

31405303  
**Auto Collision Repair Welding – Credits: 2**  
Provides students with the technical competence needed to successfully repair collision-damaged vehicles using welding technology. Students will also utilize technology to cut sheet metal and high-strength steel.

31405304  
**Auto Collision Repair Fundamentals 1 – Credits: 2**  
This course is an introduction to vehicle construction, damage, and repair, including tools and equipment, selection setup, and safe usage. It covers concepts and needed skills that are required in application in the lab/shop companion course in Auto Collision Repair 1.

31405305  
**Auto Collision Repair Fundamentals 2 – Credits: 1**  
This course is a detailed study of refinish materials, surface preparations, and application techniques and procedures of undercoats and topcoats. It involves lecture, demonstration, and lab work. It is a companion course to Auto Collision Repair 2. PREREQUISITE: 31405304 Auto Collision Repair Fundamentals 1.

31405306  
**Auto Collision Repair 1 – Credits: 5**  
In this course the student will learn about worker protection in the auto collision work environment, the basics of straightening of steel, trim and hardware repair and replacement, and corrosion protection for vehicles.

31405307  
**Auto Collision Repair 2 – Credits: 5**  
In this course the student will learn about the fundamentals and mechanics of refinishing vehicles, measurement to assess the conditions of damage, and fundamentals of collision repair. COREQUISITE: 31405306 Auto Collision Repair 1.

31405308  
**Auto Collision Repair 3 – Credits: 5**  
In this course the student will learn about the repair and refinishing of plastic in auto collision repair, structural straightening of steel in actual auto bodies, and repair of the exterior panel of a damaged vehicle. PREREQUISITE: 31405307 Auto Collision Repair 2.

31405309  
**Auto Collision Repair 4 – Credits: 5**  
In this course the student will learn about the fundamentals of vehicular electronics, heating and cooling systems, and restraints. COREQUISITE: 31405308 Auto Collision Repair 3.

31806352  
**Applied Physical Science – Credits: 2**  
Course contains a variety of applied physical science principles including light, color, chemistry, material properties, and direct current electricity. These principles will be applied to applications within the trades.

32804372  
**Math 372 – Credits: 1**  
This course covers arithmetic operations with whole numbers, fractions, and decimals. The course also covers proportions and systems of measurement.

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### Graduate Employment Information

(WITC Graduate Survey Responses 2006-2007; for most recent data, go to witc.edu)

<table>
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<tr>
<th>Number of graduates</th>
<th>13</th>
<th>Number employed</th>
<th>9</th>
<th>% employed in WITC district</th>
<th>89%</th>
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<tbody>
<tr>
<td>Number of responses</td>
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<td>Percent employed</td>
<td>90%</td>
<td>Range of yearly salary</td>
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<tr>
<td>Number available for employment</td>
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<td>Employed in related field</td>
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<td>Average yearly salary</td>
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*Average yearly salary based on composite of graduates from Wisconsin’s 16 technical college districts (including WITC graduates). Range of yearly salary not available.

800.243.9482  
witr.edu  
2009-2010