# Collision Repair Technology

**Degree Type**
Associate in Science

The Collision Repair Technology Program is designed to provide students with the skills necessary to enter the collision repair industry. The Collision Repair student will study the theory of repair and actually perform each of the different types of repairs (panel replacement, frame straightening, refinishing, etc.) on damaged vehicles. The Collision Repair Technology Program is Master Certified and accredited by the Automotive Service Excellence (ASE) Education Foundation in the following areas: damage analysis/estimating/ customer service, painting and refinishing, non-structural analysis and repair, structural analysis and repair, and mechanical/electrical components.

The students will work in a controlled, safe environment and have hands-on training on modern equipment including:

- A new heated, down-draft spray booth, mixing room and prep station
- A drive-on frame straightening machine with computerized and mechanical measuring systems
- An on site paint mixing system
- HVLP Spray Equipment

Graduates of this program will satisfy an industry need for well- educated and technically-trained people. Typical positions available in the collision industry include:

- Collision Repair Technician
- Refinish Technician
- Automotive Frame Technician
- Automobile Damage Estimator
- Shop Manager
- Sales Representative
- Automotive Detailer

In addition to the general admission requirements, Collision Repair Technology applicants should be aware of the following criteria:

1. A minimum of one year of high school Algebra I is recommended.
2. Basic skills in written English are required.
3. A basic automotive tool kit and roll cabinet are required. Accepted students needing tools may purchase tool kits at a college-sponsored Tool Day in August at a substantial discount.
4. Students are expected to possess a good work ethic and a strong desire to learn.
5. A valid driver's license is required.

Students should familiarize themselves with the Industry and Transportation General Education Policies located in the General Education Policies section of this Catalog

Technical Standards: Please refer to Technical Standards section in this catalog for details regarding this program.

Upon the completion of the degree in Collision Repair Technology, graduates will be able to:

1. Evaluate, diagnose, and repair various automotive systems using ASE guidelines.
2. Use technology and basic scientific principles for research and problem solving.
3. Employ effective written and oral communication skills.
4. Employ effective technical writing skills.
5. Utilize mathematical logic and analysis for problem solving.
6. Understand the connections between individuals and society.
7. Have the ability to achieve ASE Master Certification.
8. Perform reading skills at a college level.
9. Demonstrate effective interpersonal skills.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

# First Year - Fall Semester

| Item # | Title | Class Hours | Lab Hours | Credits |
|---|---|---|---|---|
| CRTN101N | Basic Collision Repair** | 2 | 4 | 4 |
| CRTN102N | Introduction to Collision Repair** | 3 | 0 | 3 |
| CRTN105N | Basic Automotive Refinishing** | 2 | 4 | 4 |
| ENGL101N | College Composition | 4 | 0 | 4 |
| MATH105N | Technical Mathematics | 4 | 0 | 4 |

# First Year - Spring Semester

| Item # | Title | Class Hours | Lab Hours | Credits |
|---|---|---|---|---|
| CRTN125N | Intermediate Automotive Refinishing | 2 | 4 | 4 |
| CRTN135N | Mechanical/Electrical Systems I | 2 | 3 | 3 |
| CRTN140N | Collision Repair Welding** | 2 | 3 | 3 |
| CRTN151N | Intermediate Collision Repair | 2 | 4 | 4 |
|  | English/Communications Elective |  |  | 3 |

# Summer Semester

| Item # | Title | Class Hours | Lab Hours | Credits |
|---|---|---|---|---|
| CRTN190N | Collision Repair Co-Op Work Experience | 0 | 12 | 2 |

# Second Year - Fall Semester

| Item # | Title | Class Hours | Lab Hours | Credits |
|---|---|---|---|---|
| CRTN210N | Structural Analysis and Repair | 2 | 10 | 6 |
| CRTN235N | Mechanical/Electrical Systems II | 2 | 3 | 3 |
| PHYS101N | Physical Science I | 3 | 2 | 4 |
|  | Behavioral Social Science or History/Political Science |  |  | 3 |

# Second Year - Spring Semester

| Item # | Title | Class Hours | Lab Hours | Credits |
|---|---|---|---|---|
| CRTN201N | Advanced Collision Repair | 2 | 6 | 4 |
| CRTN225N | Advanced Automotive Refinishing | 2 | 6 | 4 |
| CRTN230N | Estimating and Customer Service: A Capstone Experience | 3 | 0 | 3 |
| CRTN245N | Mechanical/Electrical Systems III | 2 | 3 | 3 |
|  | Humanities/Fine Arts/Philosophy or Global Awareness |  |  | 3 |
|  | **Total Credits** |  |  | **71** |