

2018-2019

SOUTHEAST  
COMMUNITY  
COLLEGE  
NEBRASKA

# AUTO COLLISION REPAIR TECHNOLOGY

Associate of  
Applied Science  
Degree

MILFORD CAMPUS

www.southeast.edu/AutoCollisionRepair



Students learn entry-level technical skills for the auto collision repair field and master the skills required to repair today's automobiles. Graduates are prepared for many jobs in the auto-repair field. The program is certified by the National Automotive Technicians Education Foundation. The program offers Platinum Class certification through I-CAR (Inter-Industry Conference on Auto Collision Repair) using the Professional Development Program - Education Edition. The students can also become welder-certified in both steel and aluminum through I-CAR.

## Program Overview

This program admits students for the Winter and Summer quarters. This program is an introduction to the collision repair industry, including estimating, metal repair, welding, refinishing, and detailing. Students are required to provide or purchase a basic tool set during the first quarter. A required tool list and more information is available. Students also have the opportunity to work on their own vehicles, giving them real-world, on-the-job experiences. Upon completion of the program, students will qualify for one year of work experience required by ASE for technician certification.



### General Education Requirements:

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from each area below.)

- Oral Communications 4.5
- Written Communications 4.5

(Plus three classes from the four areas below; no two classes from the same area.)

- Critical Thinking & Problem Solving,
- Global Awareness and Citizenship,
- Analytical, Quantitative and Scientific Reasoning, and/or Career and Life Skills.

See catalog for eligible classes. **13.5**  
**22.5-24.0hours**

### Auto Collision Repair Core Courses:

Course #	Course title	Credit hrs
AUTB1150	Tools & Equipment	2.0
AUTB1155	Collision Repair Theory	7.5
AUTB1160	Welding Theory	2.0
AUTB1165	Collision Repair Lab	3.5
AUTB1170	Welding Lab	1.0
AUTB1175	Paint Finishes Theory	2.0
AUTB1250	Collision Repair Theory II	4.5
AUTB1255	Collision Repair Lab II	7.0
AUTB1260	Electrical Repair I	1.5
AUTB1350	Paint Finishes Theory II	3.0
AUTB1355	Estimating Theory	1.5
AUTB1360	Electrical Repair II	1.5
AUTB1365	Refinishing Lab I	5.5
AUTB1370	Collision Repair Lab III	1.5
AUTB1450	Structural Repair Theory	3.0
AUTB1455	Safety Restraints Systems	1.5
AUTB1460	Collision Repair Lab IV	3.5
AUTB1465	Refinishing Lab II	4.0
AUTB2550	Suspension & Alignment Theory	2.0
AUTB2555	Automotive Heating & Air Conditioning	1.0
AUTB2560	Brake Systems	1.5
AUTB2565	Collision Repair Lab V	7.5
AUTB2650	Collision Repair Lab VI	10.0

**78.0 hours**

### Types of jobs available:

- Refinish Technician
- Non-structural Repair Technician
- Structural Repair Technician
- Combination Repair/Refinish Technician
- Estimator
- Insurance Appraiser
- Aviation Refinish Technician
- Industrial Coatings Technician
- Equipment Sales Representative
- Material Sales Representative
- Refinish Technical Representative
- Auto Glass Installation Technician
- Restoration Technician
- Street Rod Technician

### For more information please contact

William E. Vocasek - Program Chair  
402-761-8241, 800-933-7223 ext. 8241  
bvocasek@southeast.edu

or the College Admissions Office  
Milford 402-761-8243, 800-933-7223 ext. 8243

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## Basic Tools for Auto Collision Repair Technology Program

### Tools Required For First Quarter Second Week

- \* Ear Plugs
- \* Safety Glasses
- \* 1 - Grinding & Gas Welding Shield Set
- 1 - Head Gear, 1 - (min. #5) Tinted Welding Shield, 1-clear grinding shield
- \* 1 - Leather Welding Gloves
- \* 1 - Measuring Tape (with metric & standard measurements)
- 1 - Welding Helmet (Auto-Darkening recommended)
- \* 1 - Welders Pliers

### Tools Required For First Quarter Fourth Week

- 1 - Paint Respirator 3M 7178
- 1 - Filler Mixing Board
- 1 - Surfform Curved File Blade (cheese grater)
- 1 - Adalox Board
- 1 - 5" Rubber Sanding Block
- 1 - 8" Sanding Block
- 1 - Contour Sanding Block
- 1 - Putty Knife
- 1 - Blow Gun
- 1 - Clean & Strip Mandrel

### Tools Required For First Quarter Sixth Week

- 1 - Interior Trim Panel Removal Tool
- 1 - Magnetic Screwdriver
- 1 - 6" DA (dual action) Sander
- 1 - Torx Screwdriver Set (T10 to T35) (magnetic bit optional)
- 1 - 15-piece Metric Combination Wrench Set (Sizes 7mm thru 21mm)
- 1 - 1/4" Drive Ratchet Set (ratchet, extensions)
- 12-piece metric shallow sockets - 1/4" drive 6-point (sizes 4mm thru 14mm including 5.5mm)
- 10-piece metric deep sockets - 1/4" drive 6-point (sizes 5mm thru 14mm including 5.5mm)
- 8-piece standard deep sockets - 1/4" drive 6-point (sizes 1/4"-9/16")
- 1 - 13-piece Metric 3/8" Drive Shallow 6-point Socket Set (sizes 7mm thru 19mm)
- 1 - 13-piece Metric 3/8" Drive Deep 6-point Socket Set (sizes 7mm - 19mm) (includes ratchet)
- 1 - Torx Socket Set (T40, T45, T50, T55) (includes ratchet)

### Tools Required For Third Quarter

- 1 - Lockable Rolling Tool Box (Top Chest Optional) (Maximum 55" long — 55" includes hang/add on boxes)
- 1 - 3-piece Body Clip Removal Set (GearWrench 41850 or equivalent)
- 1 - Bent Door Skin Hammer
- 1 - Long Pick Hammer
- 1 - Roughing Hammer
- 1 - Curved Cross Chisel Hammer
- 1 - 3 lb. Cross Peen Hammer
- 1 - General Purpose (Universal) Dolly
- 1 - Toe Dolly
- 1 - Dinging Spoon
- 1 - Caulking Iron
- 1 - #1 Phillips Screwdriver (magnetic bit option)
- 1 - #2 Phillips Screwdriver (magnetic bit option)
- 1 - Small Straight Tip Screwdriver (magnetic bit option)
- 1 - Large Straight Tip Screwdriver (magnetic bit option)
- 1 - Scratch Awl
- 1 - 10" Locking Pliers (Vise Grip #10WR)
- 1 - C-Clamp Type Locking Pliers (Vise Grip #11R)
- 1 - Welders Grip Locking Pliers (Vise Grip #9R)
- 1 - 6" Slip Lock Pliers
- 1 - 5" Side Cutter Pliers
- 1 - Standard Allen (Hex) Wrench Set (magnetic bit option)
- 1 - Metric Allen (Hex) Wrench Set (magnetic bit option)
- 1 - Standard Combination Wrench Set (Sizes 1/4"-1 1/8")
- 1 - 3/8" Drive Ratchet Extension Set (may be included in the set)
- 1 - 3/8" Extension Set (may be included in the set)
- 1 - 3/8" Shallow 6pt. Socket Set (3/8" to 3/4")
- 1 - 3/8" Deep 6-point Socket Set (Sizes 3/8" to 3/4")
- 1 - Drill Bit Set (to 3/8")
- 1 - Utility Knife
- 1 - Paint Nib File
- 1 - Buffing Spur
- 1 - HVLP (High Volume Low Pressure) Compliant Paint Gun "EPA compliance letter to accompany"

- 1 - Air Chuck
- 1 - Tire Pressure Gauge
- 1 - Test Light
- 1 - Windshield Cold Knife
- 1 - Seam Buster

### Optional Tools

- 3/8" Drive Standard Impact Socket Sets (Deep & Shallow)
- 3/8" Drive Metric Impact Socket Sets (Deep & Shallow)
- 1/2" Drive Standard Impact Socket Sets (Deep & Shallow)
- 1/2" Drive Metric Impact Socket Sets (Deep & Shallow)
- 1/4" Air Ratchet
- 3/8" Air Ratchet
- 3/8" Drive Air Impact
- 1/2" Drive Air Impact
- 3/8" Air Drill
- 1/2" Air Drill
- 5" Air Grinder (Dart)
- Air File
- Air Cut-off Tool (wizzer)
- Long Barrel Air Chisel
- Electric Polisher
- Air Polisher
- 8" DA Sander (Hog)
- Cordless Drill
- Slide Hammer
- Reveal Molding Tool
- Pry Bar Set
- Long C-Clamp Type Locking Plier (Vise Grip #18R)
- Duck-Bill Locking Pliers (Vise Grip #8R)
- Body File Handle with Curved Tooth Body File Blade
- Bulls Eye Pick
- Fresh Air Respirator (Hood or Full Face Mask)
- Digital Multi Meter

\* May be purchased at the Campus Store.

### Estimated Expenses

Nebraska Resident tuition/fee rate is \$69.50 per credit hour. Out-of-state tuition/fee rate is \$83.50 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken each quarter.

Students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

#### FIRST QUARTER

Tuition And Fees	\$1,564
Books	445
**Tools	1,850
Supplies	96
<b>Total</b>	<b>\$3,955</b>

#### SECOND QUARTER

Tuition And Fees	\$1,216
Books	220
<b>Total</b>	<b>\$1,436</b>

#### THIRD QUARTER

Tuition And Fees	\$1,216
Books	160
**Tools	3,800
<b>Total</b>	<b>\$5,176</b>

#### FOURTH QUARTER

Tuition And Fees	\$1,147
Books	175
<b>Total</b>	<b>\$1,322</b>

#### FIFTH QUARTER

Tuition And Fees	\$1,147
<b>Total</b>	<b>\$1,147</b>

#### SIXTH QUARTER

Tuition And Fees	\$695
Books	175
<b>Total</b>	<b>\$870</b>

**Total Estimate For Program \$13,906**

\*\* A tool set is required for successful completion of the program and required as an entry level technician. Tools may be purchased from a vendor of the individual's choosing. Vendors are available and offer students a discount. The discounts are determined by each vendor. The cost of tools will vary depending on which vendor is selected. As each quarter has different requirements for tools, some quarters will exceed the average listed and some quarters will be below the listed estimate.

