

# Auto Body Collision Technology

Winona Campus

## OVERVIEW

In Auto Body Collision Technology at Minnesota State College Southeast in Winona, you'll learn refinishing, repair, replacement, and adjustment of body panels. The program also includes structural, mechanical, and electrical repair as well as new technologies such as working with aluminum and carbon fiber. With experience in all of these areas, you will have career opportunities in several different specialties upon graduation.

Our students develop strong problem-solving skills through hands-on learning and classroom instruction. You will learn how to access and interpret product data sheets, service information, and estimating guides. Students have the opportunity to take the coursework to earn I-CAR industry accreditation. Most importantly, you'll work on real vehicles in our state-of-the-art facility.

Auto Body Collision Technology is certified by the ASE Education Foundation making the program at Minnesota State College Southeast one of only a handful of schools in the United States certified in the four major areas of Auto Body: Refinishing, structural, non-structural, and mechanical/electrical. Job placement in this major is 100%.

## MAJORS WITHIN

Auto Body Collision Technology	AAS	67 credits
Auto Body Collision Technology	Diploma	60 credits
Auto Body Refinishing	Certificate	26 credits
Auto Body Sheet Metal Repair and Replacement	Certificate	30 credits

Estimated costs for each major including tuition, books and supplies are posted on [southeastmn.edu](http://southeastmn.edu) under Academics > Academic Programs by Degree.

## PROGRAM OUTCOMES

**Program graduates will be able to:**

1. Perform body panel and minor structural repairs and parts replacement.
2. Perform vehicle refinishing preparation, application, and paint detailing.
3. Dismantle and reassemble vehicle body parts, trim, interior components, and non-structural glass.
4. Demonstrate safe and professional work habits.
5. Perform minor mechanical and electrical collision-related procedures.
6. Assess a vehicle's damage, develop a repair plan through interpretation of service information, and communicate the calculation of repair costs and procedures to related parties.



## PROGRAM HIGHLIGHTS

Certified by the Automotive Service Excellence (ASE) Education Foundation

Instructors are Automotive Service Excellence (ASE) certified.

The program follows Inter-Industry Conference on Auto Collision Repair (I-CAR) recommended guidelines and offers the students the opportunity to gain I-CAR course credits.

Program is continually upgraded to maintain the latest technology used in industry.

70% of coursework is hands-on in a lab setting.

## CAREER OPPORTUNITIES

Auto Body and Structural Repair  
Auto Body Refinishing  
Damage Claims Writer  
Shop Manager/Owner  
Parts and Supply Industry  
Related Manufacturing

## JOB PLACEMENT

Nearly 100%



Auto Body Collision

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# Auto Body Collision Technology - Fall Start

## Sample Program Plan Revised 11.14.23

### Auto Body Collision Technology - AAS

Course No.	Course Name	Credits
<b>First Semester (Fall)</b>		
Goal 4	Mathematics	3
ABCT1115	Introduction to Transportation Careers	1
ABCT1125	Auto Body Welding 1	2
ABCT1135	Auto Body Mechanical 1	2
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
ABCT1165	Sheet Metal Repair and Replacement	5
<b>Semester total</b>		<b>17</b>
<b>Second Semester (Spring)</b>		
Goal 1	Written and Oral Communication	3
ABCT1245	Plastic and Composites Repair	2
ABCT1255	Refinishing 2	5
ABCT1265	Refinishing Lab	2
ABCT1275	Production Lab 1	4
<b>Semester total</b>		<b>16</b>
<b>Third Semester (Fall)</b>		
GEN ED	MnTC Goal 1-10 (see advisor)	3
ABCT1316	Auto Body Basic Electrical	3
ABCT1325	Auto Body Welding 2	2
ABCT1335	Auto Body Mechanical 2	3
ABCT1345	Structural Repairs	3
ABCT1355	Refinishing 3	2
ABCT1375	Production Lab 2	2
<b>Semester total</b>		<b>18</b>
<b>Fourth Semester (Spring)</b>		
ABCT	Technical Electives (see advisor)	4
GEN ED	Humanities Requirement	3
GEN ED	Social Science Requirement	3
ABCT1417	Repair Planning and Estimating	3
ABCT1485	Collision Lab	2
<b>Semester total</b>		<b>16</b>
<b>Total Required Credits</b>		<b>67</b>

### Auto Body Sheet Metal Repair and Replacement Certificate

Course No.	Course Name	Credits
<b>First Semester (Fall)</b>		
ABCT1115	Introduction to Transportation	1
ABCT1125	Auto Body Welding I	2
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
ABCT1165	Sheet Metal Repair and Replacement	5
<b>Semester total</b>		<b>12</b>
<b>Second Semester (Spring)</b>		
GEN ED	GenEd Electives	2
ABCT1245	Plastic and Composites	2
ABCT1275	Production Lab I	4
<b>Semester total</b>		<b>8</b>
<b>Third Semester (Fall)</b>		
ABCT	Technical Electives (see advisor)	4
ABCT1325	Auto Body Welding 2	2
ABCT1345	Structural Repair	3
<b>Semester total</b>		<b>9</b>
<b>Total Required Credits</b>		<b>29</b>

### Auto Body Collision Technology - Diploma

Course No.	Course Name	Credits
<b>First Semester (Fall)</b>		
GEN ED	Math Requirement (1000 level)	2
ABCT1115	Introduction to Transportation	1
ABCT1125	Auto Body Welding 1	2
ABCT1135	Auto Body Mechanical 1	2
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
ABCT1165	Sheet Metal Repair and Replacement	5
<b>Semester total</b>		<b>16</b>
<b>Second Semester (Spring)</b>		
GEN ED	English or Communication Requirement	2
ABCT1245	Plastic and Composites Repair	2
ABCT1255	Refinishing 2	5
ABCT1265	Refinishing Lab	2
ABCT1275	Production Lab 1	4
<b>Semester total</b>		<b>15</b>
<b>Third Semester (Fall)</b>		
ABCT1316	Auto Body Basic Electrical	3
ABCT1325	Auto Body Welding 2	2
ABCT1335	Auto Body Mechanical 2	3
ABCT1345	Structural Repairs	3
ABCT1355	Refinishing 3	2
ABCT1375	Production Lab 2	2
<b>Semester total</b>		<b>15</b>
<b>Fourth Semester (Spring)</b>		
GEN ED	Job Seeking Skills	1
ABCT	Technical Electives (see advisor)	4
ABCT1417	Repair Planning and Estimating	2
ABCT1475	Production Lab 3	3
ABCT1485	Collision Lab	4
<b>Semester total</b>		<b>14</b>
<b>Total Required Credits</b>		<b>60</b>

### Auto Body Refinishing - Certificate

Course No.	Course Name	Credits
<b>First Semester (Fall)</b>		
GEN ED	GenEd Electives (see advisor)	2
ABCT1115	Introduction to Transportation Careers	1
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
<b>Semester total</b>		<b>7</b>
<b>Second Semester (Spring)</b>		
ABCT	Technical Electives (see advisor)	4
ABCT1245	Plastic and Composites Repair	2
ABCT1255	Refinishing 2	5
ABCT1265	Refinishing Lab	2
<b>Semester total</b>		<b>13</b>
<b>Third Semester (Fall)</b>		
ABCT	Technical Electives (see advisor)	4
ABCT1355	Refinishing 3	2
<b>Semester total</b>		<b>6</b>
<b>Total Required Credits</b>		<b>26</b>

# Auto Body Collision Technology - Spring Start

## Sample Program Plan Revised 11.14.23

### Auto Body Collision Technology - AAS

Course No.	Course Name	Credits
<b>First Semester (Spring)</b>		
Goal 4	Mathematics	3
ABCT1245	Plastic and Composites Repair	2
ABCT1255	Refinishing 2	5
ABCT1265	Refinishing Lab	2
<b>Semester total</b>		<b>12</b>
<b>Second Semester (Fall)</b>		
Goal 1	Written and Oral Communication	3
ABCT1115	Introduction to Transportation Careers	1
ABCT1125	Auto Body Welding I	2
ABCT1135	Auto Body Mechanical I	2
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
ABCT1165	Sheet Metal Repair and Replacement	5
<b>Semester total</b>		<b>17</b>
<b>Third Semester (Spring)</b>		
Goal 6	Humanities and Fine Arts	3
GEN ED	MnTC Goals 1-10 Electives	3
ABCT	Technical Electives (see advisor)	4
ABCT1275	Production Lab 1	4
ABCT1417	Repair Planning and Estimating	2
ABCT1485	Collision Lab	4
<b>Semester total</b>		<b>20</b>
<b>Fourth Semester (Fall)</b>		
Goal 5	History, Social and Behavioral Sciences	3
ABCT1316	Auto Body Basic Electrical	3
ABCT1325	Auto Body Welding 2	2
ABCT1335	Auto Body Mechanical 2	3
ABCT1345	Structural Repairs	3
ABCT1355	Refinishing 3	2
ABCT1375	Production Lab 2	2
<b>Semester total</b>		<b>18</b>
<b>Total Required Credits</b>		<b>67</b>

### Auto Body Sheet Metal Repair and Replacement Certificate

Course No.	Course Name	Credits
<b>First Semester (Spring)</b>		
GEN ED	GenEd Elective (see advisor)	2
ABCT1115	Introduction to Transportation Careers	1
ABCT1245	Plastic and Composites Repair	2
<b>Semester total</b>		<b>5</b>
<b>Second Semester (Fall)</b>		
ABCT1125	Auto Body Welding I	2
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
ABCT1165	Sheet Metal Repair and Replacement	5
<b>Semester total</b>		<b>11</b>
<b>Third Semester (Spring)</b>		
ABCT	Technical Electives (see advisor)	4
<b>Semester total</b>		<b>4</b>
<b>Fourth Semester (Fall)</b>		
ABCT1275	Production Lab I	4
ABCT1325	Auto Body Welding 2	2
ABCT1345	Structural Repair	3
<b>Semester total</b>		<b>9</b>
<b>Total Required Credits</b>		<b>29</b>

### Auto Body Collision Technology - Diploma

Course No.	Course Name	Credits
<b>First Semester (Spring)</b>		
GEN ED	English or Communication Requirement 2	2
ABCT1115	Introduction to Transportation Careers	1
ABCT1245	Plastic and Composites Repair	2
ABCT1255	Refinishing 2	5
ABCT1265	Refinishing Lab	2
<b>Semester total</b>		<b>12</b>
<b>Second Semester (Fall)</b>		
GEN ED	Math Requirement (1000 level)	2
ABCT1125	Auto Body Welding 1	2
ABCT1135	Auto Body Mechanical 1	2
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
ABCT1165	Sheet Metal Repair and Replacement	5
<b>Semester total</b>		<b>15</b>
<b>Third Semester (Spring)</b>		
COMM1015	Job Seeking Skills	1
ABCT1275	Production Lab 1	4
ABCT1417	Repair Planning and Estimating	2
ABCT1475	Production Lab 3	3
ABCT1485	Collision Lab	4
<b>Semester total</b>		<b>14</b>
<b>Fourth Semester (Fall)</b>		
ABCT	Technical Electives (see advisor)	4
ABCT1316	Auto Body Basic Electrical	3
ABCT1325	Auto Body Welding 2	2
ABCT1335	Auto Body Mechanical 2	3
ABCT1345	Structural Repairs	3
ABCT1355	Refinishing 3	2
ABCT1375	Production Lab 2	2
<b>Semester total</b>		<b>19</b>
<b>Total Required Credits</b>		<b>60</b>

### Auto Body Refinishing - Certificate

Course No.	Course Name	Credits
<b>First Semester (Spring)</b>		
GEN ED	GenEd Electives (see advisor)	2
ABCT	Technical Electives (see advisor)	4
ABCT1245	Plastic and Composites Repair	2
ABCT1255	Refinishing 2	5
ABCT1265	Refinishing Lab	2
<b>Semester total</b>		<b>15</b>
<b>Second Semester (Fall)</b>		
ABCT	Technical Electives (see advisor)	4
ABCT1115	Introduction to Transportation Careers	1
ABCT1145	Vehicle Disassembly/Reassembly	2
ABCT1155	Refinishing 1	2
ABCT1355	Refinishing 3	2
<b>Semester total</b>		<b>11</b>
<b>Total Required Credits</b>		<b>26</b>