

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 (formerly NATEF), 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 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%

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Auto Body Collision Technology - Fall Start

Sample Program Plan Revised 9.6.19

Auto Body Collision Technology - AAS

| Course No. | Course Name | Credits |
|--|------------------------------------|-----------|
| First Semester (Fall) | | |
| GEN ED | Math Requirement | 3 |
| 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 |
| Semester total | | 17 |
| Second Semester (Spring) | | |
| GEN ED | English/Communication Requirement | 3 |
| ABCT1245 | Plastic and Composites | 2 |
| ABCT1255 | Refinishing 2 | 5 |
| ABCT1265 | Refinishing Lab | 2 |
| ABCT1275 | Production Lab 1 | 4 |
| Semester total | | 16 |
| Third Semester (Fall) | | |
| GEN ED | Electives | 3 |
| ABCT1315 | Auto Body Electrical | 2 |
| 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 |
| Semester total | | 17 |
| Fourth Semester (Spring) | | |
| ABCT Technical Electives (see advisor) | | 4 |
| GEN ED | Humanities Requirement | 3 |
| GEN ED | Social Science Requirement | 3 |
| ABCT1415 | Damage Analysis and Estimating | 3 |
| ABCT1485 | Collision Lab | 4 |
| Semester total | | 17 |
| Total Required Credits | | 67 |

Auto Body Collision Technology - Diploma

| Course No. | Course Name | Credits |
|--|------------------------------------|-----------|
| First Semester (Fall) | | |
| 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 |
| Semester total | | 16 |
| Second Semester (Spring) | | |
| GEN ED | English/Communication Requirement | 2 |
| ABCT1245 | Plastic and Composites | 2 |
| ABCT1255 | Refinishing 2 | 5 |
| ABCT1265 | Refinishing Lab | 2 |
| ABCT1275 | Production Lab 1 | 4 |
| Semester total | | 15 |
| Third Semester (Fall) | | |
| ABCT1315 | Auto Body Electrical | 2 |
| 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 |
| Semester total | | 14 |
| Fourth Semester (Spring) | | |
| GEN ED | Job Seeking Skills | 1 |
| ABCT Technical Electives (see advisor) | | 4 |
| ABCT1415 | Damage Analysis and Estimating | 3 |
| ABCT1475 | Production Lab 3 | 3 |
| ABCT1485 | Collision Lab | 4 |
| Semester total | | 15 |
| Total Required Credits | | 60 |

Auto Body Sheet Metal Repair and Replacement Certificate

| Course No. | Course Name | Credits |
|--|------------------------------------|-----------|
| First Semester (Fall) | | |
| 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 |
| Semester total | | 12 |
| Second Semester (Spring) | | |
| GEN ED | GenEd Electives | 2 |
| ABCT1245 | Plastic and Composites | 2 |
| ABCT1265 | Production Lab I | 4 |
| Semester total | | 8 |
| Third Semester (Fall) | | |
| ABCT Technical Electives (see advisor) | | 4 |
| ABCT1325 | Auto Body Welding 2 | 2 |
| ABCT1345 | Structural Repair | 3 |
| Semester total | | 9 |
| Total Required Credits | | 29 |

Auto Body Refinishing - Certificate

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

Auto Body Collision Technology - Spring Start

Sample Program Plan Revised 9.6.19

Auto Body Collision Technology - AAS

| Course No. | Course Name | Credits |
|--|------------------------------------|-----------|
| First Semester (Spring) | | |
| GEN ED | Math Requirement | 3 |
| ABCT1245 | Plastic and Composites | 2 |
| ABCT1255 | Refinishing 2 | 5 |
| ABCT1265 | Refinishing Lab | 2 |
| Semester total | | 12 |
| Second Semester (Fall) | | |
| GEN ED | English/Communication Requirement | 3 |
| ABCT1115 | Introduction to Transportation | 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 |
| Semester total | | 17 |
| Third Semester (Spring) | | |
| GEN ED | Humanities Requirement | 3 |
| GEN ED | GenEd Electives | 3 |
| ABCT Technical Electives (see advisor) | | 4 |
| ABCT1275 | Production Lab 1 | 4 |
| ABCT1415 | Damage Analysis and Estimating | 3 |
| ABCT1485 | Collision Lab | 4 |
| Semester total | | 21 |
| Fourth Semester (Fall) | | |
| GEN ED | Social Science Requirement | 3 |
| ABCT1315 | Auto Body Electrical | 2 |
| 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 |
| Semester total | | 17 |
| Total Required Credits | | 67 |

Auto Body Sheet Metal Repair and Replacement Certificate

| Course No. | Course Name | Credits |
|--|------------------------------------|-----------|
| First Semester (Spring) | | |
| GEN ED | GenEd Elective | 2 |
| ABCT1115 | Introduction to Transportation | 1 |
| ABCT1245 | Plastic and Composites | 2 |
| Semester total | | 5 |
| Second Semester (Fall) | | |
| ABCT1125 | Auto Body Welding I | 2 |
| ABCT1145 | Vehicle Disassembly/Reassembly | 2 |
| ABCT1155 | Refinishing 1 | 2 |
| ABCT1165 | Sheet Metal Repair and Replacement | 5 |
| Semester total | | 11 |
| Third Semester (Spring) | | |
| ABCT Technical Electives (see advisor) | | 4 |
| Semester total | | 4 |
| Fourth Semester (Fall) | | |
| ABCT1265 | Production Lab I | 4 |
| ABCT1325 | Auto Body Welding 2 | 2 |
| ABCT1345 | Structural Repair | 3 |
| Semester total | | 9 |
| Total Required Credits | | 29 |

Auto Body Collision Technology - Diploma

| Course No. | Course Name | Credits |
|--|------------------------------------|-----------|
| First Semester (Spring) | | |
| GEN ED | English/Communication Requirement | 2 |
| ABCT1115 | Introduction to Transportation | 1 |
| ABCT1245 | Plastic and Composites | 2 |
| ABCT1255 | Refinishing 2 | 5 |
| ABCT1265 | Refinishing Lab | 2 |
| Semester total | | 12 |
| Second Semester (Fall) | | |
| 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 |
| Semester total | | 15 |
| Third Semester (Spring) | | |
| GEN ED | Job Seeking Skills | 1 |
| ABCT1275 | Production Lab 1 | 4 |
| ABCT1415 | Damage Analysis and Estimating | 3 |
| ABCT1475 | Production Lab 3 | 3 |
| ABCT1485 | Collision Lab | 4 |
| Semester total | | 15 |
| Fourth Semester (Fall) | | |
| ABCT Technical Electives (see advisor) | | 4 |
| ABCT1315 | Auto Body Electrical | 2 |
| 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 |
| Semester total | | 18 |
| Total Required Credits | | 60 |

Auto Body Refinishing - Certificate

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