

# Automotive Technology

## Winona Campus

### OVERVIEW

If you're fascinated by all things automotive, you'll want to get on the inside track to an Automotive Technology career at Minnesota State College Southeast in Winona.

Automotive Technology is a 2 year, 55-credit diploma that is packed with everything you'll need to know to find employment in this high-paying, high-demand career area. The course load is flexible enough to allow part-time employment while going to college.

Start with the basics: Shop safety, use of service manuals, preventative maintenance, and the use of automotive tools and equipment. You will then progress to in-depth, hands-on knowledge of vehicle systems such as:

- Brakes
- Suspension and Steering
- Electrical
- Heating, Ventilation, and Air Conditioning (HVAC)
- Engine Repair and Performance
- Automatic Transmissions and Transaxles
- Drivetrain and Axles

This program also offers an introductory look into hybrid and electric vehicles, as well as light duty diesel operations and maintenance.

For a faster career start, you can begin with the 17-credit Automotive Maintenance and General Repairs - Certificate and go to straight to work or continue your training onward with the Automotive Technology - Diploma.

With your training in Automotive Technology, you will be working in an exciting, rewarding career that will always be in demand.

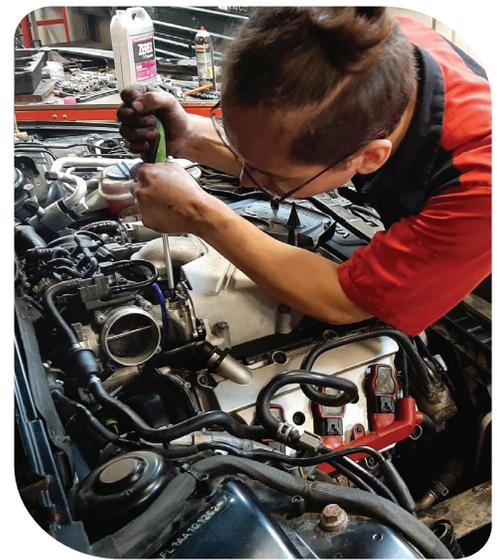
### MAJORS WITHIN

Automotive Technology	Diploma	55 credits
Automotive Maintenance and General Repairs	Certificate	17 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

1. Perform safety practices and procedures
2. Demonstrate professionalism
3. Demonstrate knowledge and understanding of vehicle systems
4. Demonstrate the ability to diagnose vehicles
5. Demonstrate the ability to complete vehicle repairs and maintenance
6. Demonstrate customer care and repair shop etiquette



### PROGRAM HIGHLIGHTS

State-of-the-art lab in the Norris P. Abts Transportation Center operates as a live shop.

Students work on customer vehicles, as well as program cars, allowing real hands-on experience.

Students will learn all aspects of an automotive repair facility, from vehicle repairs to customer care.

Text and curriculum designed around Automotive Service Excellence (ASE) Certification.

### CAREER OPPORTUNITIES

Certified Technician  
Service Manager  
Service Writer  
Shop Manager/Owner  
Vehicle Inspector  
Insurance Adjuster  
Vehicle Sales  
Part Sales  
Salvage Yard

### JOB PLACEMENT

Nearly 100%



Auto Technology

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## Full-time Sample Program Plans

Please note that these are sample program schedules. Your schedule may vary depending upon your needs, goals, and course availability. Please meet with your advisor to plan your schedule each semester.

### Automotive Maintenance and General Repairs - Certificate

Course No.	Course Name	Credits
<b>Fall Semester</b>		
AUTO 1150	General Automotive	4
AUTO 1155	Brakes	5
AUTO 1160	Suspension and Steering	5
AUTO 1165	Electrical/Electronic Systems I	3
<b>Total Required Credits</b>		<b>17</b>

### Automotive Technology - Diploma

Course No.	Course Name	Credits
<b>First Semester (Fall)</b>		
AUTO1150	General Automotive	4
AUTO1155	Brakes	5
AUTO1160	Suspension and Steering	5
AUTO1165	Electrical/Electronic Systems I	3
<b>Semester total</b>		<b>17</b>
<b>Second Semester (Spring)</b>		
AUTO1250	Electrical/Electronic Systems II	4
AUTO1255	Engine Performance I	5
AUTO1260	Heating, Ventilation, and Air Conditioning	5
AUTO1265	Introduction to Hybrid and Electric	1
AUTO1270	Introduction to Light Duty Diesel	1
<b>Semester total</b>		<b>16</b>
<b>Third Semester (Fall)</b>		
AUTO2350	Engine Repair	5
AUTO2355	Engine Performance II	5
<b>Semester total</b>		<b>10</b>
<b>Fourth Semester (Spring)</b>		
AUTO2450	Automatic Transmission and Transaxle	5
AUTO2455	Drivetrain and Axle	5
AUTO2460	Automotive Technology Capstone	2
<b>Semester total</b>		<b>12</b>
<b>Total Required Credits</b>		<b>55</b>