

Automotive Service Technician AAS DEGREE

Program Overview

Automotive repair requires trained technicians skilled in the use of testing equipment, special tools, and the latest information and specifications to service the many types of automobiles. Technicians diagnose trouble in any one of thousands of automotive components. They work with many new systems each year that require new service techniques and training. Some of these include air conditioning units, emission control devices, alternators, electronic ignition, and electronic fuel injection.

Students are prepared to take the ASE certification tests when they have completed the program. ASE certifies technicians nationwide.

Students should have good mechanical aptitude, be in good physical condition and have the ability to get along with others. To profit from the training offered, the students must read well enough to understand the technical information presented.

Career Opportunities

Opportunities are expected to be plentiful for automotive technicians with technical training according to the U.S. Department of Labor. The department also states that the growing complexity of automotive technology, such as the use of electronic and emissions control equipment increasingly necessitates that cars be serviced by professionals.

The auto technician may work in a dealership garage, an independent garage, or as a specialist. Opportunities exist for a technician to become a shop service sales person, new car dealership service manager, or shop owner.

Program Outcomes

1. Graduates will have knowledge and skills in use of testing equipment, special tools, and specifications for servicing automobiles.
2. Graduates will have the knowledge and skills to diagnose problems in automotive systems.
3. Graduates will have knowledge and skills to service automobile brakes, alignment, and suspension, manual transmission, four wheel drive and differentials, heating and air conditioning, starting and charging systems, electrical accessories, fuel systems and automatic transmissions.
4. Graduates will have acquired supervised hands-on experience working on customer vehicles.
5. Graduates will be prepared for employment as Automotive Service Technicians.

Program Faculty

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Length of Program

This is a full-time, day program. The program can be completed in four semesters. Students can enroll in the program only in the fall.

Admission Requirement

Admission requires completion of the Automotive Service Technician Diploma, or concurrent enrollment in the second year Auto Technician program.

Program Requirements

Check off when completed

Course	Cr
<input type="checkbox"/> AUTO 1410 Trade Knowledge	.3
<input type="checkbox"/> AUTO 1420 General Auto Service	.3
<input type="checkbox"/> AUTO 1430 Brakes	.4
<input type="checkbox"/> AUTO 1440 Alignment & Suspension	.5
<input type="checkbox"/> AUTO 1510 Clutch/Driveline Manual Transmission	.3
<input type="checkbox"/> AUTO 1522 Four Wheel Drive & Differential	.4
<input type="checkbox"/> AUTO 1530 Basic Electrical & Battery	.3
<input type="checkbox"/> AUTO 1540 Basic Engine Management	.3
<input type="checkbox"/> AUTO 1550 Heating & Air Conditioning	.4
<input type="checkbox"/> AUTO 1570 Basic Auto Welding	.2
<input type="checkbox"/> AUTO 2410 Starting & Charging Systems	.3
<input type="checkbox"/> AUTO 2420 Electrical Accessories	.3
<input type="checkbox"/> AUTO 2430 Engine Theory & Repair	.4
<input type="checkbox"/> AUTO 2440 Engine Installation	.2
<input type="checkbox"/> AUTO 2450 Introduction to Auto Computers	.2
<input type="checkbox"/> AUTO 2510 Fuel Systems	.5
<input type="checkbox"/> AUTO 2520 Engine Drivability	.3
Subtotal	.56

General Education Requirements Cr

Must complete at least 16 credits from the Minnesota Transfer Curriculum-MnTC

<input type="checkbox"/> ENGL 1711 Composition 1 (Goal 1)	.4
<input type="checkbox"/> SPCH XXXX (Goal 1 only)	.3
<input type="checkbox"/> Natural Sciences (Goal 3) OR Math/Logical Reasoning (Goal 4)	.3
<input type="checkbox"/> History, Social Science, Behavioral Sciences (Goal 5)*	.3
<input type="checkbox"/> Humanities and Fine Arts (Goal 6)*	.3
General Education Requirements	.16

Total Program Credits72

* Please refer to the catalog for general education options.

*Information is subject to change.
This Program Requirements Guide is not a contract.*

Program Start Dates

Fall, (Spring – if space available)

Course Sequence

The following full-time sequence is recommended.

First Semester

AUTO 1410 Trade Knowledge	.3
AUTO 1420 General Auto Service	.3
AUTO 1430 Brakes	.4
AUTO 1510 Clutch/Driveline Manual Transmission	.3
AUTO 1530 Basic Electrical & Battery	.3
AUTO 1570 Basic Auto Welding	.2
Total Semester Credits	1.8

Second Semester

AUTO 1440 Alignment & Suspension	.5
AUTO 1522 Four Wheel Drive & Differential	.4
AUTO 1540 Basic Engine Management	.3
AUTO 1550 Heating & Air Conditioning	.4
Total Semester Credits	1.6

Third Semester

AUTO 2410 Starting & Charging Systems	.3
AUTO 2420 Electrical Accessories	.3
AUTO 2430 Engine Theory & Repair	.4
AUTO 2440 Engine Installation	.2
AUTO 2450 Introduction to Auto Computers	.2
Total Semester Credits	1.4

Fourth Semester

AUTO 2510 Fuel Systems	.5
AUTO 2520 Engine Drivability	.3
Total Semester Credits	.8

Any Semester

General Education requirement courses may be taken before, after or concurrently with the Automotive Service Technician courses.
General Education Requirements16

Total Program Credits72

Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 60+ or grade of "C" or better in READ 0721

Writing: Any

Arithmetic: Score of 31+ or grade of "C" or better in MATH 0741

Shop/classroom visit recommended

Student must have a valid driver's license

Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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