Automotive Service Technician DIPLOMA

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. Students also need to be able to read and process technical information.

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 shop service sales person, new car dealer service manager, or shop owner.

Program Outcomes
1. Graduates will be prepared to pass all 8 ASE tests.
2. Graduates will have knowledge and skills in use of testing equipment, special tools, and specifications for servicing automobiles.
3. Graduates will have the knowledge and skills to diagnose problems in automotive systems.
4. Graduates will be prepared for employment as Automotive Service Technicians.

Program Faculty
Llewellyn Olivier  llewellyn.olivier@saintpaul.edu
John Purcell  john.purcell@saintpaul.edu
David Vorderbruggen  david.vorderbruggen@saintpaul.edu
Jake Yernberg  jake.yernberg@saintpaul.edu

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

Tool costs
Students will need to supply their own basic tools and tool box. The estimated cost for professional quality tools and tool box is approximately $2,000–$3,000.

Tool vendors will be on campus during the first week.

Program Requirements
☐ Check off when completed
Successful completion of each semester in this program is a prerequisite for participation in the following semester.

Course
AUTO 1415 Introduction to Automotive Technology 4
AUTO 1430 Brakes 4
AUTO 1441 Alignment & Suspension 4
AUTO 1510 Clutch/Driveline Manual Transmission 3
AUTO 1523 Four Wheel Drive Differential 3
AUTO 1530 Basic Electrical & Battery 3
AUTO 1540 Basic Engine Management 3
AUTO 1550 Heating & Air Conditioning 4
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
AUTO 2513 Fuel Systems 3
AUTO 2520 Engine Drivability 3
AUTO 2530 Automatic Transmission Theory 2
AUTO 2542 Automatic Transmission Diagnosis & Repair 4
AUTO 2550 Specialized Lab 1 2

Total Program Credits 56

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: Score of 38+
Arithmetic: Score of 31+
Spatial assessment required: Score 10+
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.

Program Faculty with questions.

Program Start Dates
Fall

Transfer Opportunities
Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below.

For more information please go to saintpaul.edu/Transfer.

Automotive Service Technician Diploma
BS Operations Management
Minnesota State University, Moorhead

Course Sequence
The course sequence listed on the back of this guide is recommended for a full-time student; however, this sequence is not required. Contact Program Faculty with questions.

See back of this guide for Course Sequence

This Program Requirements Guide is not a contract.

Information is subject to change.
This Program Requirements Guide is not a contract.
### Course Sequence
The following full-time sequence is recommended.

#### First Semester
- AUTO 1415 Introduction to Automotive Technology ........................................... 4
- AUTO 1430 Brakes ................................................................ 4
- AUTO 1510 Clutch/Driveline Manual Transmission ........................................ 3
- AUTO 1530 Basic Electrical & Battery ...................................................... 3
- Total Semester Credits ................................................................. 14

#### Second Semester
- AUTO 1441 Alignment & Suspension ................................................................. 4
- AUTO 1523 Four Wheel Drive & Differential ................................................ 3
- AUTO 1540 Basic Engine Management ..................................................... 3
- AUTO 1550 Heating & Air Conditioning ....................................................... 4
- Total Semester Credits ................................................................. 14

#### 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 ................................................................. 14

#### Fourth Semester
- AUTO 2513 Fuel Systems ................................................................ 3
- AUTO 2520 Engine Drivability ................................................................ 3
- AUTO 2530 Auto Transmission Theory .................................................... 2
- AUTO 2542 Auto Tran Diagnosis & Repair ............................................... 4
- AUTO 2550 Specialized Lab 1 ................................................................ 2
- Total Semester Credits ................................................................. 14

Total Program Credits ................................................................. 56