Program Information

This program is intended to provide the successful automotive technician program graduate with additional knowledge and skills needed to accurately and cost effectively diagnose and repair the complex vehicle systems of today and tomorrow. Students will be provided extensive opportunities to develop and practice critical thinking skills and advanced automotive and light duty vehicle diagnostic processes. Lab work encompassing the understanding and use of advanced diagnostic tools and equipment in a diagnostic environment will also be an important part of this course.

Program Learning Outcomes

- Describe the application of advanced automotive and light duty vehicle electrical, electronic, and computer controlled system technology.
- Develop and practice the critical and creative thinking processes required to effectively and efficiently diagnose advanced automotive and light duty electrical, electronic, and computer controlled system technology.
- Develop and demonstrate the skills necessary to safely service and repair advanced automotive and light duty electrical, electronic, and computer controlled system technology.
- Demonstrate the ability to utilize computer based original equipment manufacturer vehicle service information systems.
- Use advanced level automotive diagnostic tools and test equipment.

Industry and Career Outlook

Automotive technicians in general are in high demand and short supply. Growth in this career is projected at 3.6% through 2026. This does not take into account the number of baby boomers that have and will continue to retire from the industry and need to be replaced now.

Wage information is available from the Minnesota Department of Employment and Economic Development.

Certification Information

After successful completion of first semester courses, the student may elect to participate in the National Institute for Automotive Service Excellence (ASE) Certification testing in the following areas:
- A6- Electrical/Electronic Systems
- A8- Engine Performance
- A9- Light Vehicle Diesel Engines

After successful completion of second semester courses, the student may elect to participate in the National Institute for Automotive Service Excellence (ASE) Certification testing in the following areas:
- L1- Advanced Engine Performance Specialist
- L3- Light Duty Hybrid/Electric Vehicle Specialist

Admission Requirements

1. Application to Anoka Technical College
2. Must have one of the following
   a. completion of an automotive training program with an award of a diploma or
   b. completion of an automotive training program with an award of an Associate of Applied Science (AAS) or
   c. Two years of work experience with letter of recommendation from employer
3. Interview with auto instructor for admission into program

Start Dates

Fall Semester…………………………………………………………..August

Course Prerequisites

Some courses in this program may require a prerequisite. Please see course descriptions for more details.

Program Sequence

Fall Semester…………………………………………………………..16
- DIAG 2600 The Diagnostic Process………………………………2
- DIAG 2620 Vehicle Networking and Service Programming ..3
- DIAG 2640 Powertrain Control System Service…………………3
- DIAG 2660 Diagnosing Powertrain Control Systems………..4
- DIAG 2680 Hybrid & Electric Vehicle Service…………………4

Spring Semester………………………………………………………16
- DIAG 2700 Diagnosing Hybrid & Electric Vehicles ..........4
- DIAG 2720 Diagnosing Noise, Vibration, & Harshness Issues………………………………………………………….2
- DIAG 2740 Diagnosing Body Control Systems………………4
- DIAG 2760 Diagnosing Chassis Control Systems……………..4
- DIAG 2780 Diagnosing Driveline Control Systems……….2

Graduation Requirements

Students must earn a cumulative 2.0 GPA or higher to be eligible for graduation from this program.

Faculty Contact

Dave McFarland…………………………………………………….763-576-4193
Dave Holmquist……………………………………………………..763-576-4187

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu

Also see: Automotive Technician AAS degree & diploma