

Auto Service Technology AAS - 72 credits

Program Area: Auto Service (Fall 2019)

*****REMEMBER TO REGISTER EARLY*****

Program Description

In the Automotive Service Technology programs, students will have the opportunity to learn skills to prepare for entry-level positions as automotive technicians. These skills will also be helpful in preparing for A.S.E. (Automotive Service Excellence) certification. Courses of instruction cover all systems of the automobile, including basic operation and parts identification with the objective of developing diagnostic skills. Automotive service technicians, in addition to enjoying working with their hands, must also have the ability to systematically diagnose technical automotive problems.

The A.A.S. program is similar in content to the diploma program, but also includes 15 credits of liberal education, which are intended to diversify the students training and enhance transfer opportunities to other institutions of higher learning.

Program Outcomes

- Demonstrate the skills and knowledge necessary to utilize service literature
- Demonstrate the skills and knowledge to perform repairs following environmental and ethical guidelines
- Exhibit the safety procedures and practices necessary to work efficiently and professionally in the automotive industry
- Demonstrate the ability to maintain and repair tools and equipment in the automotive shop
- Demonstrate the skills and knowledge necessary for diagnosis and repair of automotive: heating and air conditioning systems, electrical systems, drive train systems, steering and suspension systems, brake systems, drive ability systems, and engine systems

Required Courses

| Number | Name | Credits | Term |
|--|---|---------|------|
| ASTE 1400 | Introduction to Transportation | 3 | |
| ASTE 1410* | Air Conditioning | 3 | |
| ASTE 1430 | Auto Electrical Fundamentals | 3 | |
| ASTE 1490 | Automotive Shop Management I | 3 | |
| ASTE 2410* | Basic Wheel Alignment | 3 | |
| ASTE 1440* | Body Electrical and Electronics | 3 | |
| ASTE 1450* | Engine Service | 5 | |
| ASTE 1460* | Basic Fuel System Service | 2 | |
| ASTE 1470* | Basic Engine Driveability | 3 | |
| ASTE 1500* | Charging and Starting Systems | 3 | |
| ASTE 2470* | Introduction to Automotive Computers | 3 | |
| ASTE 2500* | Fuel Systems II | 3 | |
| ASTE 2510* | Advanced Engine Driveability | 4 | |
| ASTE 2400* | Suspension and Steering Repair | 3 | |
| ASTE 2420* | Advanced Wheel Alignment | 2 | |
| ASTE 2430* | Clutch and Differential | 3 | |
| ASTE 2440* | Brakes | 4 | |
| ASTE 2480* | Advanced Air Conditioning | 2 | |
| ASTE 2490* | Automotive Shop Management II | 2 | |
| MnTC General Education Requirements | | | |
| Goal Area 1 | Communication (3 credit minimum) | 15 | |
| Goal Area 3 OR Goal Area 4 | Natural Sciences OR Mathematical/Logical Reasoning (3 credit minimum) | | |
| Goal Area 5 | Social and Behavior Sciences (3 credit minimum) | | |
| Goal Areas 1-10 | General Education - Other | | |
| | | | |

Total Credits **72**

*Requires a prerequisite or a concurrent course



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Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English and reading. Program entry will depend, in part, on meeting the prerequisites listed below:

English/Reading:

- A score of 78 or higher on the reading comprehension portion of the Accuplacer, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 0955 may be taken concurrently with Semester I coursework.

*For interpretation of test results and selection of appropriate coursework;
or general information about the program, admissions, financial aid, and getting started at LSC,
contact the [professional advising team](#) at 218-733-7601*

For more information about the Auto Service Technology AAS Degree including course descriptions, course prerequisites, and potential career opportunities, see the [program website](#)

- or -

Contact Faculty Advisors: [Mitch Connor](#) at 218-733-7662 or [Dean Magnuson](#) at 218-733-6996



MINNESOTA STATE

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Minnesota State Program ID: 1033
LSC Major ID: 5315

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