

Auto Service Technology Diploma - 64 credits

Program Area: Auto Service (Fall 2020)

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

Program Description

In the Auto Service Technology program, 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.

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, engine systems, and transmission systems

Required Courses

| Number | Name | Credits | Term |
|------------|--------------------------------------|---------|------|
| ASTE 1400 | Introduction to Transportation | 3 | |
| ASTE 1490 | Automotive Shop Management I | 3 | |
| ASTE 2490* | Automotive Shop Management II | 2 | |
| ASTE 1430 | Auto Electrical Fundamentals | 3 | |
| ASTE 2430* | Clutch and Differential | 3 | |
| ASTE 1450* | Engine Service | 5 | |
| ASTE 1460* | Basic Fuel System Service | 2 | |
| ASTE 2500* | Fuel Systems II | 3 | |
| ASTE 1470* | Basic Engine Driveability | 3 | |
| ASTE 2510* | Advanced Engine Driveability | 4 | |
| ASTE 2440* | Brakes | 4 | |
| ASTE 2400* | Suspension and Steering Repair | 3 | |
| ASTE 2410* | Basic Wheel Alignment | 3 | |
| ASTE 2420* | Advanced Wheel Alignment | 2 | |
| ASTE 1410* | Air Conditioning | 3 | |
| ASTE 2480* | Advanced Air Conditioning | 2 | |
| ASTE 1500* | Charging and Starting Systems | 3 | |
| ASTE 1440* | Body Electrical and Electronics | 3 | |
| ASTE 2470* | Introduction to Automotive Computers | 3 | |
| ASTE 2450* | Transmission Theory | 2 | |
| ASTE 2460* | Transmission Lab | 3 | |
| ENGL 1005 | Applied Communications | 2 | |

Total Credits 64

*Requires a prerequisite or a concurrent course

Pre-program Requirements

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



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English/Reading:

- A score of 250 or higher on the reading 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.

Mathematics:

- A score of 236 or higher on the QAS portion **and** a score of 236 or higher on the Arithmetic portion of the Accuplacer.

There are other ways to qualify. Visit [LSC Accuplacer](http://lsc.edu/Accuplacer) (lsc.edu/Accuplacer) to find out more.

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](mailto:pat@lsc.edu) (pat@lsc.edu) at 218-733-7601

For more information about the Auto Service Technology Diploma including course descriptions, course prerequisites, the program report, and potential career opportunities,
see the [program website](https://degrees.lsc.edu/auto-mechanic/) (https://degrees.lsc.edu/auto-mechanic/)

or

Contact Faculty Advisor: [Dean Magnuson](mailto:dean.magnuson@lsc.edu) (dean.magnuson@lsc.edu) at 218-733-6996



MINNESOTA STATE

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