



## Auto Maintenance and Light Repair Diploma - 36 credits

Program Area: Auto Service (Fall 2021)

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

### Program Description

In the Auto Maintenance and Light Repair program, students will have the opportunity to learn skills to prepare for entry-level positions as automotive and light truck maintenance technicians. These skills will also be helpful in preparing for Automotive Service Excellence (ASE) certification. Program courses cover fundamental parts identification, operation, and maintenance of vehicle components and systems specified by the ASE Education Foundation. Courses align with the ASE G1 industry requirements.

### Program Outcomes

At the end of this program, students will be able to demonstrate the skills and knowledge to:

- Utilize service literature
- Perform maintenance following environmental and ethical guidelines
- Exhibit the safety procedures and practices necessary to work efficiently and professionally in the automotive industry
- Operate, maintain, and repair tools and equipment in the automotive shop
- Provide basic maintenance and light repair of the following automotive systems: engines, transmission, drive trains, suspension and steering, brakes, electrical, heating, air conditioning, and fuel injection
- Safely perform maintenance on light duty diesel, stop start, and hybrid vehicles

### Required Courses

Number	Name	Credits	Term
ASTE 1310	Applied Safety and Environmental Stewardship	2	
ASTE 1320**	Information Systems and Shop Management	3	
ASTE 1330*	Automotive Fundamentals and Maintenance	5	
ASTE 1340**	Electrical and Electronics Principles	6	
ASTE 1350*	Electronic Control Units and Scan Tools	2	
ASTE 1510**	Braking Systems	4	
ASTE 1520*	Supplemental Restraint Systems	2	
ASTE 1530**	Steering, Suspension, and Alignment	8	
ASTE 1540*	Climate Control System Operation, Diagnosis, and Repair	4	

**Total Credits 36**

\*Requires a prerequisite or a concurrent course

\*\* Meets NC3 Certification requirements

### 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:

#### English/Reading:

- Eligible for ENGL 1106 - College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 may be taken concurrently with Semester I coursework.

#### Mathematics:

- Eligible for MATH 0970 - Intermediate Algebra, or
- Completion of MATH 0950/0955 (or equivalent or higher). MATH 0950/0955 may be taken concurrently with Semester I coursework.

There are other ways to qualify. Visit [Course Placement](http://lsc.edu/course-placement) (lsc.edu/course-placement) to find out more.



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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:advising@lsc.edu) (advising@lsc.edu) at 218-733-7601

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For more information about the Auto Maintenance and Light Repair Diploma including course  
descriptions, course prerequisites, the program report, and potential career opportunities,  
see the [program website](https://degrees.lsc.edu/) (https://degrees.lsc.edu/)

or

Contact Faculty Advisors:

[Dean Magnuson](mailto:dean.magnuson@lsc.edu) (dean.magnuson@lsc.edu) at 218-733-996

[Stuart Soland](mailto:stuart.soland@lsc.edu) (stuart.soland@lsc.edu) at 218-733-5984



MINNESOTA STATE

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