



## Brake and Suspension Certificate - 28 credits

Program Area: Auto Service (Fall 2019)

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

### Program Description

A Brake and Suspension Technician is a technician who uses problem solving and critical thinking skills along with a working knowledge of brake and suspension components to diagnose and repair a variety of vehicle handling and braking problems.

This 28-credit Certificate seamlessly transfers to the Auto Service Technology Diploma (64 credits) and the AAS (72 credits).

The courses will be provided by qualified Lake Superior College faculty and will be offered at varied times throughout the day and evening. All credits will transfer into the Automotive Service Technology program and/ or can serve as preparation to A.S.E. (Automotive Service Excellence) certification.

### 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 electrical systems, steering and suspension systems, automotive brake systems

### Required Courses

Number	Name	Credits	Term
ASTE 1400	Introduction to Transportation	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 2400*	Suspension and Steering Repair	3	
ASTE 2420*	Advanced Wheel Alignment	2	
ASTE 2440*	Brakes	4	
ASTE 2490*	Automotive Shop Management II	2	
ENGL 1005	Applied Communications	2	

**Total Credits 28**

\*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 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*



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For more information about the Brake and Suspension Certificate including course descriptions, course prerequisites, the gainful employment disclosure, 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

CIP Code: 47.0604  
Minnesota State Program ID: 3565  
LSC Major ID: 5324

Created: 3/1/05  
AASC Approval: 3/4/15  
Updated: 2/1/19

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