



Commercial and Residential Wiring AAS - 82 credits

Program Area: Electrician (Fall 2023)

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

THE ELECTRONIC PROGRAM APPLICATION MAY BE FOUND ON THE LSC WEBSITE.
APPLICATION DATES TO APPLY ARE JANUARY 31ST - FEBRUARY 28TH ANNUALLY.

Program Description

The Commercial and Residential Wiring AAS Degree program combines technical courses with general education courses, offering graduates an excellent foundation for employment leading to leadership roles, management positions, and potential transfer to institutions with baccalaureate degrees. This program is designed to develop entry-level skills; and to complete the program within two years, the student is advised to follow the program guide.

Approved by the Minnesota Department of Labor and Industry for one-year credit toward the Journeyman exam.

Program Outcomes

The program is designed to provide students with the knowledge and ability to:

- Have a working knowledge and understanding of the National Electrical Code (NEC)
- Have a working knowledge of safety issues relating to the electrical industry and workplace
- Understand and be able to perform tasks relating to residential wiring
- Understand and be able to perform tasks relating to commercial wiring
- Understand and be able to perform tasks relating to industrial wiring

Qualified applicants should be aware that program class sizes are limited, which may delay acceptance into the program.

*Indicates courses required to be completed or currently in-progress at time of application in order to be considered for acceptance.

Pre-Program Courses

Number	Name	Credits	Term
ELTN 1406	DC Electricity	4	
ELTN 1408	AC Electricity	4	
ELTN 1412	Digital Electronics	2	
MATH 1115	Contemporary Math or Goal Area 4 course	4	
ELTN 1422	Media and Cabling	2	
ELTN 1475	Introduction to the National Electrical Code	2	
ELTN 1428	Electrical Safety	1	
ELTN 1442	Motors and Generators	6	
ELTN 1470	Systematic Troubleshooting	1	
ELTN 1530	Renewable Energy Systems	3	
ELTN 1635	PLT Control Lab	3	
ELTN 2442	Automation Controllers	3	

Required Courses

Number	Name	Credits	Term
ELEC 2403	Residential Wiring	4	
ELEC 2405	Electrical Blueprint Reading	2	
ELEC 2423	Commercial Wiring I	4	
ELEC 2433	Motor Control	3	
ELEC 2440	National Electrical Code I	2	
ELTN 2430	Introduction to Instrumentation	3	
ELEC 2523	Commercial Wiring II	4	
ELEC 2461	Electrical Troubleshooting	2	
ELEC 2503	Electrical Controls	3	
ELEC 2533	Industrial Wiring	4	
ELEC 2510	National Electrical Code II	2	
ELTN 2440	Motor Speed Controllers	3	
General Education Electives	Choose from at least 2 different Goal Areas: 1-3 or 5-10 of the Minnesota Transfer Curriculum	11	

Total Credits

82



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Program Articulations

This program has an articulation agreement in place that allows students to transfer credits earned in the LSC Commercial and Residential Wiring AAS degree:

- Minnesota State University Moorhead, BS in Operations Management
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Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English/reading and mathematics.

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.
- With instructor permission, concurrent enrollment in MATH 1115

There are other ways to qualify. Visit [Course Placement](https://lsc.edu/course-placement) (lsc.edu/course-placement) 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:advising@lsc.edu) (advising@lsc.edu) at 218-733-7601

For more information about the Commercial and Residential Wiring AAS Degree including course descriptions, course prerequisites, and potential career opportunities, see the [program website](https://degrees.lsc.edu/electrician/) (https://degrees.lsc.edu/electrician/)

or

Contact Faculty Advisor, [Jerry Erickson](mailto:jerry.erickson@lsc.edu) (jerry.erickson@lsc.edu) or 218-733-6948



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