



Basic Electronics Certificate - 26 credits

Program Area: Electronics (Fall 2017)

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

Program Description

This certificate is designed to give basic knowledge of electronics and computers. The technical knowledge received will prepare students for future training on specific electronic equipment

This certificate transfers seamlessly into the Electronic Technology Diploma (60 credits), and the Electronic Engineering Technology AAS (72 credits)

Required Courses

Number	Name	Credits	Term
ELTN 1406	DC Electricity	4	
ELTN 1408	AC Electricity	4	
ELTN 1412	Digital Electronics	2	
MATH 1115	Contemporary Math	4	
ELTN 1422	Media and Cabling	2	
ELTN 1432	Solid-State Devices	5	
ELTN 1500	Practical PC Maintenance	2	
ELTN 2442	Automation Controllers	3	

Total Credits **26**

*Requires a prerequisite or a concurrent course

Program Outcomes

- Operate common electronic test equipment, oscilloscopes, DMM's, and signal generators
- Read and understand circuit schematics, i.e. recognize basic circuit configurations and understand their operation
- Understand basic circuit analysis techniques
- Troubleshoot and repair common electronic circuits

Pre-program Requirements

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

English/Reading:

- A score of 56 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 0950 may be taken concurrently with Semester I coursework.

Mathematics:

- A score of 71 or higher on the **Elementary Algebra Skills** portion of the Accuplacer, or
- Completion of MATH 0460 (or equivalent or higher). Math 0460 may be taken concurrently with Semester I coursework, or
- With instructor permission, concurrent enrollment in MATH 1115.

*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: pat@lsc.edu or 218-733-7601*



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For more information about the Basic Electronics Certificate including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program website:

<https://degrees.lsc.edu/basic-electronics/>

- or -

Contact Faculty Advisors, Dave Lustila: d.lustila@lsc.edu or 218-733-7687 or Chris Ringsred: c.ringsred@lsc.edu or 218-733-7688 or Alan Alberg: a.alberg@lsc.edu or 218-733-7687



MINNESOTA STATE

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MnSCU Program ID: 1025
LSC Major ID: 5677

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