



## Basic Electronics Certificate - 26 credits

Program Area: Electronics (Fall 2016)

**\*\*\*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)*

### 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

REQUIRED COURSES			
Number	Name	Credits	Term
ELTN 1402	Basic Electricity	8	
ELTN 1412	Digital Electronics	2	
ELTN 1422	Media and Cabling	2	
ELTN 1500	Practical PC Maintenance	2	
ELTN 1432	Solid-State Devices	5	
ELTN 1452	Microcontrollers	4	
Choose 3 credits from the following ( other courses may be allowed as electives with program advisor approval):		3	
<ul style="list-style-type: none"> <li>• Any ELTN or ELEC courses not listed above</li> <li>• COMM 1601: Interviewing Procedure and Practice (1 credit)</li> <li>• ELTN 2477: Electronics Internship (2 credits)</li> </ul>			
<b>TOTAL CREDITS</b>		<b>26</b>	

*\*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, mathematics, 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.

#### 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

*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 a professional advisor, 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](mailto:d.lustila@lsc.edu) or 218-733-7687 or Chris Ringsred: [c.ringsred@lsc.edu](mailto:c.ringsred@lsc.edu) or 218-733-7688 or Alan Alberg: [a.alberg@lsc.edu](mailto:a.alberg@lsc.edu) or 218-733-7687



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