



## Electronic Technology Diploma - 60 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)*

### 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
- Install and configure various PC hardware components, e.g. memory, hard drives, modems, and network cards

### 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 1452*	Microcontrollers	4	
ELTN 1500	Practical PC Maintenance	2	
ELTN 1470	Systematic Troubleshooting	1	
ELTN 2442*	Automation Controllers	3	
ELTN 2400*	CET Exam Preparation	2	
	Choose 27 credits from the following (other courses may be allowed as electives with program advisor approval):	27	
	<ul style="list-style-type: none"> <li>• Any <b>ELTN</b> or <b>ELEC</b> courses not listed above</li> <li>• <b>COMM 1601</b>: Interviewing Procedure and Practice (1 credit)</li> </ul>		

**Total Credits** **60**

\*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 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.



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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 at: [pat@lsc.edu](mailto:pat@lsc.edu) or 218-733-7601*

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For more information about the Electronic Technology Diploma including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program website:  
<https://degrees.lsc.edu/electronic-technician/>

- 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



MINNESOTA STATE

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MnSCU Program ID: 0308  
LSC Major ID: 5360

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*All courses in diploma and/or certificate programs are acceptable for credit toward Lake Superior College degree programs as indicated on individual program planners. This is not a contract; Lake Superior College reserves the right to change the planner as necessary. This document is available in alternative formats upon request, by contacting Disability Services, [disabilityservices@lsc.edu](mailto:disabilityservices@lsc.edu) or (218) 733-7650 or MRS/TTY (800) 627-3529.*