

## Electronic Technology Diploma - 60 credits

Program Area: Electronics (Fall 2021)

**\*\*\*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 diploma transfers seamlessly into 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       |      |
|            | <i>Choose 27 credits from the following (other courses may be allowed as electives with program advisor approval):</i>  | 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:

- 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](http://lsc.edu/course-placement) (lsc.edu/course-placement) to find out more.



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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: [professional advising team](#) (advising@lsc.edu) or 218-733-7601

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For more information about the Electronic Technology Diploma including course descriptions, course prerequisites, the program report, and potential career opportunities, see the [program website](https://degrees.lsc.edu/electronic-technician/) (https://degrees.lsc.edu/electronic-technician/)

or

Contact Faculty Advisors, [Dave Lustila](#) (david.lustila@lsc.edu) at 218-733-7687 or [Alan Alberg](#) (alan.alberg@lsc.edu) at 218-733-7687



MINNESOTA STATE

CIP Code: 15.0303  
Minnesota State Program ID: 0308  
LSC Major ID: 5360

Created: 3/1/05  
AASC Approval: 2/15/17  
Updated: 2/1/21

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