

# Lake Superior College

## Program Planner

Created on: 03/01/05

Updated: 02/09/11

Effective: *Fall 2011*

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

*You may be required to complete additional (or less) coursework, dependent upon the results of your Computerized Placement Test (CPT) and/or previous coursework completed or certifications earned.*

**Program:** **Commercial and Residential Wiring**

**Degree Type:** **Diploma**

**Total Required Credits:** **68**

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### 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:**

- A score of 86 or higher on the Sentence Skills portion of the CPT, OR
- Completion of ENGL0460 or its equivalent transfer course or higher.
- If required, ENGL0460 may be taken concurrently with Semester I coursework.

**Mathematics:**

- A score of 36 or higher on the Elementary Algebra Skills portion of the CPT, OR
- Completion of MATH1500 or its equivalent transfer course or higher.
- If required, MATH1500 may be taken concurrently with Semester I coursework.

**Reading:**

- A score of 78 or higher on the Reading Comprehension portion of the CPT, OR
  - Completion of READ0465 or its equivalent transfer course or higher.
  - If required, READ0465 may be taken concurrently with Semester I coursework.
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## Semester I

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
FYE1000	<b>Intro to College</b> (None)	F	1	
ELTN1402	<b>Basic Electricity Theory</b> (None)	F/S	8	
ELTN1412	<b>Digital Electronics</b> (None)	F/S	2	
ELTN1422	<b>Media and Cabling</b> (None)	F/S	3	
ELTN1500	<b>Practical PC Maintenance</b> (None)	F/S	2	
<b>Total Credits for Term</b>			<b>16</b>	

## Semester II

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
ELTN1442	<b>Motors and Generators</b> (ELTN1402)	S	8	
ELTN1470	<b>Systematic Troubleshooting</b> (ELTN1402)	F/S	1	
ELTN2442	<b>Automation Controllers</b> (ELTN1412)	F/S	3	
ELTN1635	<b>PLT Control Lab</b> (ELTN1412)	S	3	
	<b>Technical Electives</b> (Refer to Table 1)		2	
<b>Total Credits for Term</b>			<b>17</b>	

## Semester III

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
ELEC2401	<b>Residential Wiring</b> (Completion of first year courses or consent of instructor)	F	1	
ELEC2402	<b>Residential Wiring Lab</b> (Completion of first year courses or consent of instructor)	F	3	
ELEC2405	<b>Electrical Blueprint Reading</b> (Completion of first year courses or consent of instructor)	F	2	
ELEC2421	<b>Commercial Wiring I</b> (Completion of first year courses or consent of instructor)	F	1	
ELEC2422	<b>Commercial Wiring I Lab</b> (Completion of first year courses or	F	3	

	consent of instructor)			
<b>ELEC2431</b>	<b>Motor Control</b> (Completion of first year courses or consent of instructor)	<b>F</b>	<b>2</b>	
<b>ELEC2432</b>	<b>Motor Control Lab</b> (Completion of first year courses or consent of instructor)	<b>F</b>	<b>1</b>	
<b>ELEC2440</b>	<b>National Electrical Code I</b> (Completion of first year courses or consent of instructor)	<b>F</b>	<b>2</b>	
<b>ELTN2430</b>	<b>Introduction to Instrumentation</b> (ELTN1402)	<b>F/S</b>	<b>3</b>	
<b>Total Credits for Term</b>			<b>18</b>	

### Semester IV

<b>Course ID#</b>	<b>Course Title</b> (Pre-reqs)	<b>Term</b>	<b>Credits</b>	<b>Grade/ Term</b>
<b>ELEC2451</b>	<b>Commercial Wiring II</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>1</b>	
<b>ELEC2452</b>	<b>Commercial Wiring II Lab</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>3</b>	
<b>ELEC2461</b>	<b>Electrical Troubleshooting</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>2</b>	
<b>ELEC2471</b>	<b>Industrial Wiring</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>2</b>	
<b>ELEC2472</b>	<b>Industrial Wiring Lab</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>2</b>	
<b>ELEC2501</b>	<b>Electric Controls</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>2</b>	
<b>ELEC2502</b>	<b>Electric Controls Lab</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>1</b>	
<b>ELEC2510</b>	<b>National Electrical Code II</b> (Completion of first year courses or consent of instructor)	<b>S</b>	<b>2</b>	
<b>ELTN2440</b>	<b>Motor Speed Controllers</b> (ELTN1402 and ELTN1442)	<b>F/S</b>	<b>2</b>	
<b>Total Credits for Term</b>			<b>17</b>	

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**Table 1: Technical Electives**

**(NOTE:** Any **ELTN** or **ELEC** courses not required on the planner may be taken as **technical** electives. Other courses may be allowed as electives with program advisor approval.)

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
ALTH1435	<b>American Red Cross Community First Aid and CPR</b> (None)	S	1	
COMM1601	<b>Interviewing Procedure and Practice</b> (None; computer skills necessary)	F/S	1	
COMM1602	<b>Teambuilding Procedure and Practice</b> (College-level reading and writing)	F/S	1	
MATH1500	<b>Applied Algebra and Trigonometry</b> (None)	F/S	4	

- *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 can be made available in alternative formats, such as large print, Braille, or audio tape, by calling 733-7650 or MRS/TTY 800-627-3529.*