

LANSING COMMUNITY COLLEGE

**Computer, Engineering/Manufacturing Industrial Technologies**

Curriculum Code:  
0760 (Effective Fall  
2017 – Summer  
2022)

**Electrical Technology, Control Maintenance C.A.  
Pathway**

Semester I Fall	Course Title	Prerequisites	Credit/ Billing Hours
<b>Program of Study Requirements</b> <i>Students who have already completed DCTM 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for ELTE 102. Any of these courses may also be used to fulfill the prerequisite for ELTE 108, ELTE 109, and ELTE 121.</i>			
ELTE 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
ELTE 108	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 109	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 111	Intro to Industrial Automation	Reading Level 3	4 / 6
<b>Credits</b>			<b>10 / 15</b>

Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
<b>Program of Study Requirements</b>			
ELTE 121	Electrical Mathematics	Minimum 2.0 in (ELTE 100 or ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102) and (ELTE 110 or ELTE 108 or ELTE 118) and (minimum 2.0 in MATH 107 or MATH 114 or Math Level 5) and Reading Level 5	5 / 6
ELTE 131	Machine Controls I	Minimum 2.0 in (ELTE 110 or ELTE 108 or ELTE 118) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 5
ELTE 150	Electric Motor Maintenance	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
<b>Electrical Specialization Elective - <i>Select 1</i></b>			
ELTE 112	Basic Wiring Installation	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 132	Control Panel Assembly	Minimum 2.0 in (ELTE 131 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
<b>Credits</b>			<b>13 / 17</b>

<b>Semester III Fall</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
ELTE 232	Machine Controls II	Minimum 2.0 in ELTE 131 and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
ELTE 260	Programmable Controllers I	Minimum 2.0 in ELTE 131 and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
<b>Credits</b>			<b>8 / 12</b>
<b>Semester IV Spring</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/ Billing Hours</b>
<b>Program of Study Requirements</b>			
ELTE 122	Industrial Control Electronics	Minimum 2.0 in ELTE 111 and Reading Level 5 and Writing Level 2 and Math Level 5	5 / 7
ELTE 261	Programmable Controllers II	Minimum 2.0 in (ELTE 260 or ELTA 160) and Reading Level 3 and Writing Level 2 and Math Level 3	6 / 8
<b>Credits</b>			<b>11 / 15</b>
<b>Total Credits</b>			<b>42 / 59</b>