

LANSING COMMUNITY COLLEGE			
Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 1783 (Effective Fall 2017 – Summer 2022)	Electrical Utility/Lineworker A.A.S. Pathway		
<p><b>Note:</b> ELTE 272, ELTE 274 and ELTE 276 are scheduled in a ten-week block typically offered during Summer Semester. Enrollment is restricted to students who have received department approval and who have completed all other courses on the curriculum with a minimum 2.5 grade except for both sections of PFFT 182 &amp; PFFT 183 and ELTE 182 which must be passed with a minimum 3.0 grade. Students must receive a 2.5 in ELTE 272, ELTE 274 and ELTE 276 in order to successfully complete the program.</p>			
Semester I SUMMER	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
ELTE 181	Pole Climbing I	Department Approval	.5 / 1
Writing Core Area - <i>Select 1</i>			
ENGL 121 <i>(formerly WRIT 121)</i>	Composition I	Reading Level 5 and Writing Level 6	4 / 4
ENGL 124 <i>(formerly WRIT 124)</i>	Technical Writing	(Reading Level 5 and Writing Level 6) or AASD 105 concurrently	3 / 3
ENGL 127 <i>(formerly WRIT 127)</i>	Business Writing	(Reading Level 5 and Writing Level 6) or AASD 105 concurrently	3 / 3
Fitness and Code Electives - <i>Select one or more courses for a minimum of 1 credit</i> <i>Courses may not be duplicated</i>			
ELTE 194	Utility Vehicle Operation I	Department Approval	.25 / .5
ELTE 195	Utility Vehicle Operation II	Department Approval	.25 / .5
PFFT 181	Lineworker Fitness A	Program Approval for Acceptance into the Electrical Utility/Lineworker Curriculum and Reading Level 3 and Writing Level 2	1 / 2
PFFT 182	Lineworker Fitness B	Minimum 3.0 in PFFT 181 or 2 minutes or better on LPAT score and Reading Level 3 and Writing Level 2	1 / 2
PFFT 183	Lineworker Fitness C	Reading Level 3 and Writing Level 2	2 / 4
<b>Credits</b>			<b>4.5-6.5 / 6-9</b>

Semester II FALL		Course Title	Prerequisites	Credit/Billing Hours
<b>Program of Study Requirements</b>				
ELTE 102		Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
METS 140		Rigging	Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 4.5
1st 8 Weeks	ELTE 104	Employee Worksite Basics	Reading Level 3 and Writing Level 2 and Math Level 3	1 / 1
1st 8 Weeks	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
1st 8 Weeks	ELTE 173	Energy Industry Fundamentals I	Reading Level 4 and Writing Level 4 and Math Level 4	2 / 2
2nd 8 Weeks	ELTA 106	Basic Electrical Calculations	Reading Level 3 and Writing Level 2 and Math Level 4	2 / 2
2nd 8 Weeks	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
2nd 8 Weeks	ELTE 174	Energy Industry Fundamentals II	Minimum 2.0 in (ELTE 173 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	2 / 2
Short Courses	ELTE 182	Pole Climbing II	Minimum 3.5 in ELTE 181	.5 / 1
Short Courses	ELTE 185	Pole Climbing Practice I	Minimum 3.5 in ELTE 181	.25 / .5

<b>Fitness and Code Electives - <i>Select one or more courses for a minimum of 1 credit</i></b> <i>Courses may not be duplicated</i>			
ELTE 194	Utility Vehicle Operation I	Department Approval	.25 / .5
ELTE 195	Utility Vehicle Operation II	Department Approval	.25 / .5
PFFT 181	Lineworker Fitness A	Program Approval for Acceptance into the Electrical Utility/Lineworker Curriculum and Reading Level 3 and Writing Level 2	1 / 2
PFFT 182	Lineworker Fitness B	Minimum 3.0 in PFFT 181 or 2 minutes or better on LPAT score and Reading Level 3 and Writing Level 2	1 / 2
PFFT 183	Lineworker Fitness C	Reading Level 3 and Writing Level 2	2 / 4
<b>Credits</b>			<b>17.75-18.75 / 24-26</b>
<b>Semester III SPRING</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
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 154	Utility Prints and Diagrams	Minimum 2.0 in (ELTA 120 or ELTE 121 or concurrently) and Reading Level 3 and Writing Level 2 and (minimum 2.0 in ELTA 106 or Math Level 5)	3 / 3
1st 8 Weeks	ELTA 120 AC Fundamentals - Electrician	Minimum 2.0 in ((ELTE 110 or ELTE 108 or ELTE 118 or concurrently) and (minimum 2.5 in (ELTA 106 or MATH 114 or Math Level 5)) and Reading Level 3 and Writing Level 2	2 / 3
2nd 8 Weeks	ELTA 155 Transformer Fundamentals	Minimum 2.0 in (ELTE 121 or (ELTA 120 or concurrently)) and Reading Level 4 and Writing Level 2	2 / 3

Short Courses	ELTE 186	Pole Climbing Practice II	Minimum 2.5 in ELTE 182 or passing grade in ELTE 185	.25 / .5
Short Courses	ELTE 270	Lineworker Fundamentals	Department Approval	1 / 1.5
<b>Fitness and Code Electives - <i>Select one or more courses for a minimum of 2 credits</i></b> <i>Courses may not be duplicated</i>				
ELTE 194		Utility Vehicle Operation I	Department Approval	.25 / .5
ELTE 195		Utility Vehicle Operation II	Department Approval	.25 / .5
PFFT 181		Lineworker Fitness A	Program Approval for Acceptance into the Electrical Utility/Lineworker Curriculum and Reading Level 3 and Writing Level 2	1 / 2
PFFT 182		Lineworker Fitness B	Minimum 3.0 in PFFT 181 or 2 minutes or better on LPAT score and Reading Level 3 and Writing Level 2	1 / 2
PFFT 183		Lineworker Fitness C	Reading Level 3 and Writing Level 2	2 / 4
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 141		National Electrical Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
<b>Credits</b>				<b>14.25-16.25/ 19-20</b>
<b>Semester IV SUMMER</b>		<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>				
ELTE 272		Electric Basic Line Climbing	Department Approval	4 / 6
ELTE 274		Ground/Utility Worker	Minimum 3.5 in ELTE 272	6 / 9
ELTE 276		Energized Secondary Worker	Minimum 3.5 in ELTE 274	5 / 8
<b>Credits</b>				<b>15 / 23</b>

Semester V FALL	Course Title	Prerequisites	Credit/ Billing Hours
<b>Mathematics Core Area - <i>Select 1</i></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
<b>Science Core Area - <i>Select 1</i></b>			
BIOL 120	Environmental Science	(Reading Level 5 or AASD 105 concurrently) and Writing Level 6	4 / 6
<b>Communication Core Area - <i>Select 1</i></b>			
ARTS 102	Design & Communication	(Reading Level 5 or READ 170 concurrently or AASD 105 concurrently) and Writing Level 6	3 / 4
COMM 110 <i>(formerly SPCH 110)</i>	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3
<b>Global Perspectives and Diversity Core Area - <i>Select 1</i></b>			
COMM 280 <i>(formerly SPCH 280)</i>	Intercultural Communication	Reading Level 5 and Writing Level 6	3 / 3
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
RELG 150	Intro to World Religions	Reading Level 5 and Writing Level 6	4 / 4
<b>Credits</b>			<b>15-16 / 18-20</b>
<b>Total Credits</b>			<b>66.5-72.5 / 90-98</b>