

**POWERLINE TECHNOLOGY, A.A.S.****Powerline Technology, A.A.S.****Overview**

The Powerline Technician major is designed to train students to become apprentices in powerline construction and maintenance. Students learn basic skills and applications in transmission and distribution. Persons trained in this field work for power companies installing and maintaining overhead and underground powerlines. They install equipment such as overvoltage and overcurrent protective devices, transformers, capacitors, and regulators. Powerline technicians are employed by investor owned power companies, consumer owned power companies, municipalities, and by electrical contractors.

**Locations**

Jackson

Course Number	Course Title	Credits
<b>Summer Session II</b>		
ELPL 1100	Pole Climbing and Equipment Operations I	3
ELUT 1101	Electrical and Rigging Safety	3
	Credits Summer Session	<b>6</b>
<b>Fall - Year 1</b>		
ELCO 1100	Electrical Circuits Fundamentals	3
ELPL 1102	Pole Climbing and Equipment Operations II	4
ELPL 1106	Electric Distribution of Powerlines I	4
ELUT 1105	Blueprint, Schematics and Transit	3
* ELEC 1235	Applied Electrical Calculations	2
	<b>Credits Fall - Year 1</b>	<b>16</b>
<b>Spring - Year 1</b>		
ELPL 1116	Electric Distribution of Powerlines II	4
ELPL 1121	Electric Distribution of Powerlines III	4
ELUT 1110	Transformer Banking I	3
ELUT 1115	Generation, Transmission and Distribution	3
EMS 1112	AHA CPR Healthcare Provider, AED First Aid Certification	1
AUTO 1194	Commercial Driver License Learner Permit Preparation	1
	<b>Credits Spring - Year 1</b>	<b>16</b>
<b>Fall - Year 2</b>		
ELUT 2110	Transformer Banking II	2
ELUT 2116	Reclosures and Protective Equipment	2
ELUT 2121	Protective Relays	2
	General Education	6
	<b>Credits Fall - Year 2</b>	<b>12</b>
<b>Spring - Year 2</b>		
ELUT 2100	Electrical Metering	3
ELUT 2126	Regulators and Capacitors	2
	General Education	<b>9</b>

Course Number	Course Title	Credits
	<b>Credits Spring - Year 2</b>	<b>14</b>
	<b>TOTAL CREDITS</b>	<b>64</b>

**Notes:**

The 15 General Education requirements must be selected from 3 of the 10 Goal Areas of the Minnesota Transfer Curriculum.

\* Any MATH Mn Transfer course from the following list may be substituted for ELEC 1235: MATH 1105, MATH 1107, MATH 1111, MATH 1113, MATH 1118, or MATH 1121.

General Education Electives from: English, Biology, Chemistry, Math, Physics, Natural Science, Art, Foreign Language, Literature, Music, Philosophy, Theatre, Western Civilization, Economics, Geography, History, Political Science, Psychology, and Sociology.