

# ELECTRIC LINEWORKER (AAS)

Degree: Associate of Applied Science

Major: Electric Line Worker

Program Code: 1391

## About This Major . . .

This program covers all areas of training required to work with electric lines, including: basic skills in studies of electricity, math, fundamentals of line work, transformer connections, and underground installation. In addition to training at the field location, all students are encouraged to obtain a Red Cross First Aid and a CPR card as a requirement for employment. With this certificate, students will be prepared for entry-level positions as electric line mechanics, electric line workers, or power line workers

For more information on what you can do with this major, visit WCCC's [Programs of Study](#) page.

All CMU/WCCC associate graduates are expected to demonstrate proficiency in specialized knowledge/applied learning, quantitative fluency, communication fluency, critical thinking, personal and social responsibility, and information literacy. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a ground man or lineman in the electrical distribution industry. (Communication Fluency)
2. Apply mathematical concepts to perform electrical formula calculations used for finding voltages, amperes, resistance, and power. (Quantitative Fluency)
3. Demonstrate familiarity with Standard Operating Procedures regarding climbing structures, replacing associated equipment, pole setting procedures, and soil recognition for underground applications and perform all required safety procedures. (Specialized Knowledge)
4. Evaluate a situation, and determine which Standard Operating Procedure (SOP) applies to perform the job in a safe and timely manner. (Applied Learning)
5. Describe the scope and application of principle features of an electric line worker, including core practices required by the electrical distribution industry. (Critical Thinking)
6. Evaluate company policies, ethical standards and perform in a manner that is consistent to Federal and State laws. (Specialized Knowledge)

## Requirements

Each section below contains details about the requirements for this program. Select a header to expand the information/requirements for that particular section of the program's requirements.

**To print or save an overview of this program's information, including the program description, learning outcomes, requirements, suggested course sequencing (if applicable), and advising and graduation information, scroll to the bottom of the left-hand navigation menu and select "Print Options."** This will give you the options to either "Send Page to Printer" or "Download PDF of This Page." The "Download PDF of This Page" option prepares a much more concise presentation of all program information. The PDF is also printable and may be preferable due to its brevity.

## Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

### Specific to this degree:

- 64 semester hours total for the AAS, Electric Line Worker.
- A minimum of 16 semester hours taken at CMU in no fewer than two semesters.

## Essential Learning Requirements

(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

Code	Title	Semester Credit Hours
<b>Communication</b>		
ENGL 111	English Composition I-GTCO1	3
Select one of the following courses:		
ENGL 112	English Composition II-GTCO2	3
SPCH 101	Interpersonal Communications	
SPCH 102	Speechmaking	
<b>Mathematics</b>		
MATH 107	Career Math (or higher)	3
<b>Other Essential Learning Core Courses</b>		
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course		3

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course 3

**Total Semester Credit Hours 15**

## Other Lower Division Requirements

Code	Title	Semester Credit Hours
<b>Wellness Requirement</b>		
KINE 100	Health and Wellness	1
Select one Activity course		1
<b>Total Semester Credit Hours</b>		<b>2</b>

## Program Specific Degree Requirements

(47 semester hours, must earn a grade of "C" or better in each course.)

Code	Title	Semester Credit Hours
<b>Core Courses</b>		
ELCL 120	Fundamentals of Electricity	4
ELCL 125	Job Training and Safety	2
ELCL 131	Electrical Distribution Theory I	4
ELCL 131L	Electric Distribution Lab	4
ELCL 132	Electrical Distribution Theory II	4
ELCL 132L	Electrical Distribution Theory II Laboratory	2
ELCL 137	Advanced Electrical Distribution	2
ELCL 137L	Advanced Electrical Distribution Laboratory	4
ELCL 140	Underground Procedures	4
ELCL 140L	Underground Procedures Laboratory	2
ELCL 145	Hot Line Procedures	1
ELCL 145L	Hot Line Procedures Laboratory	2
<b>Total Semester Credit Hours</b>		<b>35</b>

Code	Title	Semester Credit Hours
<b>Restricted Electives</b>		
Choose 12 semester hours from the list below:		12
ABUS 257	Managing Office Technology I	
ABUS 101	Budget Analysis	
ABUS 200	Business Rules and Regulations	
GEOL 103	Weather and Climate-GTSC2	
GEOG 131	Introduction to Cartography	
BUGB 101	Introduction to Business	
BUGB 211	Business Communications	
MANG 121	Human Relations In Business	
<b>Total Semester Credit Hours</b>		<b>12</b>

## Suggested Course Plan

First Year		Semester Credit Hours
<b>Fall Semester</b>		
MATH 107	Career Math	3
ELCL 120	Fundamentals of Electricity	4
ELCL 125	Job Training and Safety	2
ELCL 131	Electrical Distribution Theory I	4
ELCL 131L	Electric Distribution Lab	4
Standard First Aid/CPR		
<b>Semester Credit Hours</b>		<b>17</b>
<b>Spring Semester</b>		
ELCL 132	Electrical Distribution Theory II	4
ELCL 132L	Electrical Distribution Theory II Laboratory	2
ELCL 137	Advanced Electrical Distribution	2
ELCL 137L	Advanced Electrical Distribution Laboratory	4
ELCL 140	Underground Procedures	4
ELCL 140L	Underground Procedures Laboratory	2
ELCL 145	Hot Line Procedures	1
ELCL 145L	Hot Line Procedures Laboratory	2
<b>Semester Credit Hours</b>		<b>21</b>
<b>Second Year</b>		
<b>Fall Semester</b>		
ENGL 111	English Composition I-GTC01	3
Social Sciences, Natural Science, Fine Arts or Humanities		3
Restricted Electives		6
<b>Semester Credit Hours</b>		<b>12</b>
<b>Spring Semester</b>		
Select one of the following:		3
SPCH 101	Interpersonal Communications	
SPCH 102	Speechmaking	
ENGL 112	English Composition II-GTC02	
Social Sciences, Natural Science, Fine Arts or Humanities		3
Restricted Electives		6
KINE 100	Health and Wellness	1
KINA 1XX	Activity	1
<b>Semester Credit Hours</b>		<b>14</b>
<b>Total Semester Credit Hours</b>		<b>64</b>

## Advising and Graduation Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

## Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at <http://www.coloradomesa.edu/registrar/graduation.html>.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.