

Lineman Technology

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Department of Construction Technologies

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School of Technology and Computing

Interim Dean: Ernest Carey
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CAREER OPPORTUNITIES

Today both men and women are training for jobs in the electrical trades — power generation, transmission, and distribution. Technicians may work in different types of jobs within the lineman trades. They may work in generating plants, or within the telecommunication industry, or installing overhead and/or underground fiber optic cables. They may be required to interpret and use electrical and electronic test equipment. They may work in substations with large power transformers, relaying equipment, voltage regulators, instrument transformers, and oil circuit breakers.

They may perform duties as electrical inspectors and consultants. They use blue prints, wiring diagrams, schematics and circuits of all types for troubleshooting, repair, and maintenance or installation of electrical components. They may be required to work in power transmission and distribution, installation and line maintenance, and line equipment with

voltage from 120 volts to 500 KV. They may learn the techniques of live line maintenance to maintain continuity of service to the customer. They may be involved in residential, commercial, and industrial metering and may maintain and calibrate the metering equipment.

PROGRAMS

Three options are available: Diploma, Associate in Applied Science degree, and the Bachelor of Science Degree in Technology Management.

Diploma in

Lineman Technology 54 CREDITS

Discipline	Core Requirements:	54 Credits
• ENGL 106A	Career Writing for Technology--A	2.0
• LINE 1110	Lineman DC Theory and Lab	4.0
• LINE 1120	Residential Wiring	2.0
• LINE 1130	Lineman Applied DC Math	3.0
• LINE 1140	Basic Skill Development and Safety	4.0
• LINE 1210	AC Theory and Transformer Applications	4.0
• LINE 1220	Commercial Wiring	2.0
• LINE 1230	Lineman Applied AC Math	3.0
• LINE 1240	Single/Three-Phase Lines and Safety	4.0
• LINE 2310	Powerline Technician and Safety Code I	4.0
• LINE 2320	Industrial Wiring	2.0
• LINE 2330	Single and Polyphase Metering	2.0
• LINE 2340	Three-Phase Lines and Safety	5.0
• LINE 2410	Powerline Technician and Safety Code II	4.0
• LINE 2430	Substation Equipment	4.0
• LINE 2440	High Voltage Substation and Safety	4.0
• Social/Behavioral Science		1.0

Graduation Requirements:
1 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)

AAS in

Lineman Technology 64 CREDITS

General Education Requirements:	16 Credits
ENGLISH	2.0
• ENGL 1010	Introduction to Writing (3.0)
• ENGL 1060	Career Writing for Technology* (3.0)
• ENGL 106A	Career Writing for Technology--A (2.0)
• MGMT 2200	Business Communications (3.0)
MATHEMATICS	2.0
• LINE 1130	Lineman Applied DC Math (3.0)*
• MAT 1010	Intermediate Algebra (4.0)
• Any higher Mathematics Course	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE	2.0
• PHIL 2050	Ethics and Values (highly recommended) (3.0)
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	
SOCIAL AND BEHAVIORAL SCIENCE	2.0
• MGMT 3000	Organizational Behavior (3.0)
• Any approved Behavioral Science, Social, or Political Science Distribution Course	
BIOLOGY OR PHYSICAL SCIENCE	2.0
• EGDT 1810	Principles of Technology (2.0)
• Any approved Biology or Physical Science Distribution Course	
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT	1.0
• Any approved Physical Education, Health, Safety or Environment Course	
ADDITIONAL CREDITS FROM ANY OF THE ABOVE	5.0

Discipline Core Requirements: 48 Credits

Discipline	Core Requirements:	48 Credits
• LINE 1110	Lineman DC Theory and Lab	4.0
• LINE 1120	Residential Wiring	2.0
• LINE 1140	Basic Skill Development and Safety	4.0
• LINE 1210	AC Theory and Transformer Applications	4.0
• LINE 1220	Commercial Wiring	2.0
• LINE 1230	Lineman Applied AC Math*	3.0
• LINE 1240	Single/Three-Phase Lines and Safety	4.0

• LINE 2310	Powerline Technician and Safety Code I	4.0
• LINE 2320	Industrial Wiring	2.0
• LINE 2330	Single and Polyphase Metering	2.0
• LINE 2340	Three-Phase Lines and Safety	5.0
• LINE 2410	Powerline Technician and Safety Code II	4.0
• LINE 2430	Substation Equipment	4.0
• LINE 2440	High Voltage Substation and Safety	4.0

Graduation Requirements:

- 1 Completion of a minimum of 64 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

Footnotes:

* ENGL 1060, LINE 1130, and LINE 1230 do not meet the General Education requirements for an AS/AA.

BS in Technology

Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in

Lineman Technology 51 Credits

Emphasis Requirements:	51 Credits	
• LINE 1110	Lineman DC Theory and Lab	4.0
• LINE 1120	Residential Wiring	2.0
• LINE 1130	Lineman Applied DC Math	3.0
• LINE 1140	Basic Skill Development and Safety	4.0
• LINE 1210	AC Theory and Transformer Applications	4.0
• LINE 1220	Commercial Wiring	2.0
• LINE 1230	Lineman Applied AC Math	3.0
• LINE 1240	Single/Three-Phase Lines and Safety	4.0
• LINE 2310	Powerline Technician and Safety Code I	4.0
• LINE 2320	Industrial Wiring	2.0
• LINE 2330	Single and Polyphase Metering	2.0
• LINE 2340	Three-Phase Lines and Safety	5.0
• LINE 2410	Powerline Technician and Safety Code II	4.0
• LINE 2430	Substation Equipment	4.0
• LINE 2440	High Voltage Substation and Safety	4.0

LINEMAN APPRENTICESHIP

The Lineman Apprentice courses are offered for Linemen Apprentices to complete the Federal Bureau of Apprenticeship and Training's other-related instruction requirements. See Apprenticeship section of the catalog for Lineman Apprentice classes. The Lineman Apprentice courses may substitute for a portion of the Lineman Technology Program requirements for an AAS Degree. For further information contact the Lineman Advisor.

Due to the technical nature of the material in the following courses, additional reading and math instruction may be required. More information will be given during advisement.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ACRT, Air Conditioning & Refrigeration Technology
- BCCM, Building Construction & Construction Management
- BIT, Building Inspection Technology

- CAW, Cabinetry & Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology