

## ELW – Electrical Lineman Worker

### **ELW 110 Electrical Computations 1 - 3 - 2**

This course introduces the fundamental applications of mathematics that are used by an electrical line technician. Topics include whole numbers, fractions, decimals, powers, roots, simple electrical formulas, and use of a scientific calculator.

### **ELW 111 Intro to Electrical Line Work 2 - 3 - 3**

This course introduces basic principles of electricity, safety standards and basic line worker tools. Topics include electrical distribution systems and components, line installation and maintenance applications.

### **ELW 112 Intro to Electricity 2 - 3 - 3**

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronic majors. Topics include basic DC and AC principles, components and operation of test equipment.

### **ELW 114 Overhead Line Construction I 2 - 3 - 3**

This course introduces the basics of overhead power line construction. Topics include safe work habits, protective equipment and pole climbing techniques.

### **ELW 211 Underground Line Const I 2 - 3 - 3**

This course introduces underground line distribution systems, including terminators, elbows, transformers, underground installations and safety practices.

### **ELW 231 Electrical Power Systems 2 - 3 - 3**

This course examines the basic principles of electrical power systems, including transmission lines, generator and transformer characteristics, fault detection and correction, interpretation of line diagrams and performance of per-unit calculations for circuit performance analysis.