

2023-2024 TTC Catalog

General Technology - Electrical Line Worker Technology

Associate in Applied Science in General Technology

Electrical Line Worker Career Path

65 Credit Hours

The General Technology major allows students to select course work necessary to become multiskilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This program is open to students who have completed and received the Electrical Line Worker Third Class certificate and must be employees of a utility during the semester they are taking the courses below. The degree path offers students the opportunity to expand their education base and prepare them to further their opportunities in the electric utility industry. Students develop advanced skills in electrical circuit analysis, power systems, line construction and safety. This path expands knowledge in the areas of first aid, CPR, advanced studies in electricity, supervisory skills, accounting and leadership training.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3

ECO 210 Macroeconomics 3

or

PSY 201 General Psychology 3

SPC 205 Public Speaking 3

or

SPC 209 Interpersonal Communication 3

REQ HUM Select from 3
[Humanities](#)

REQ MAT Select from 3
[Mathematics/](#)
[Natural Sciences](#)

Total: 15

First Year Experience Requirement

EGR 110 Introduction to Computer Environment 3

or

IDS 109 First Year Experience Seminar 3

Total: 3

Primary Technical Specialty

**Students must be employees of a utility company during the semester they are taking these courses.*

ELW 110 Electrical Computations 2
ELW 111 Introduction to Electrical Line Worker 3
ELW 112 Introduction to Electricity 3
ELW 113 National Electrical Safety Code 3
ELW 114 Overhead Line Construction I 3
ELW 115 Overhead Line Construction II 3 *
ELW 116 Overhead Line Construction III 3 *
ELW 117 Overhead Line Construction IV 3 *
ELW 211 Underground Line Construction I 3
ELW 212 Underground Line Construction II 3 *
ELW 221 Advanced Line Construction 3 *
ELW 231 Electrical Power Systems 3

Total: 35

Secondary Technical Specialty

For the Secondary Technical Specialty, students may also take 12 semester-hour credits from programs related to Industrial Electricity-Electronics or Industrial Mechanics. Twelve semester credit hours from other programs may be appropriate; students should contact their academic advisor for details.

MGT 101 Principles of Management 3
MGT 201 Human Resource Management 3
MGT 210 Employee Selection and Retention 3
MGT 255 Organizational Behavior 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

This program is open to students who have completed and received the Electrical Line Worker Third Class certificate.