

Career Studies Certificates: Basic Electrical Technician; Drafting

AREA: Basic Electrical Technician 221-941-02

PURPOSE: To expose students to theory and applications related to electrical systems

OCCUPATIONAL OBJECTIVES: To prepare students for entry-level positions in the electrical field

This certificate can be completed in two semesters if the following conditions are met:

- Students are willing to enroll in day and evening classes
- Students must take classes in the semesters they are listed

Course#	Title	Credits
Fall Semester		
ELE 133	Practical Electricity I	3
ELE 135	National Electrical Code Residential	3
SDV 101/100	Introduction to the Trades Profession	1
Total		7

Spring Semester

ELE 134	Practical Electricity II	3
ELE 137	National Electrical Code Industrial	3
ELE 190	Coordinated Internship <u>or</u> Technical elective (WEL, AIR, ELE or ITE 115)	3
Total		9

Program Total 16

AREA: Drafting 221-729-09

PURPOSE: To enable students to develop drafting graphics skills related to architecture, machine design, and using specialized computer software in the drafting field

OCCUPATIONAL OBJECTIVES: architectural/civil drafter, engineering technician, surveying and mapping technician, draft technician, or other related positions

Course#	Title	Credits
ARC 130	Introduction to Materials and Methods of Construction	3
ARC 221	Architectural CAD Applications Software I ¹	3
ARC 222	Architectural CAD Applications Software II ²	3
CAD 241	Parametric Solid Modeling I	3
CAD 242	Parametric Solid Modeling II	3
EGR 110	Engineering Graphics	3
MEC 111	Materials for Industry	3
Total		21

¹Prerequisite for ARC 222 is ARC 221

²Prerequisite for CAD 242 is CAD 241