

# ASSOCIATE OF SCIENCE IN ELECTRICAL TECHNOLOGY (AS)

This degree prepares students for entry-level employment in the field of Electrical Technology through the study of circuits, controls, and wiring methods. Students will acquire skills in motor controls, blueprint design and creation, circuitry, installations and application, and basic safety skills.

## Program Outcomes

- Students will be able to install and understand the uses of electrical equipment. They will be able to install an electrical panel, switch gear, and transformers to power up a given scenario.
- Wiring methods and procedures. Students will learn the art of conduit bending, and installing conductors.
- Perform motor controls exercises that have our students being able to install, disconnect and diagnose typical motors used in industry settings.
- Produce One line drawings that illustrate the installation of a wiring installation using AutoCAD.
- Learn Programmable Logic control and how it is used in industry to improve production and energy consumption.

## Career Opportunities

Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: residential, commercial, and industrial electrical.

## Note

This degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

## Program Requirements

Code	Title	Units
GENERAL EDUCATION AND SUBJECT REQUIREMENTS		25
College of the Sequoias Associate Degree General Education (COS-GE)		
+		
REQUIRED MAJOR COURSES		28
ET 200	Introduction to Electrician Training	4
ET 201	Electrician Training 1	4
ET 202	Electrician Training 2	4
ET 203	Electrician Training 3	4
ET 204	Electrician Training 4	4
ET 205	Electrician Training 5	4
ET 206	Electrician Training 6	4
+		
RESTRICTED ELECTIVES		2
Select one from the following courses:		
BUS 181	Intro to Entrepreneurship	3
ET 207	Electrician Training 7	4

ITEC 270	Programmable Logic Controllers for Technicians	2
+		
ELECTIVES		3-5
Select additional degree applicable courses numbered 1-299 to achieve 60 units.		
=		
TOTAL		60

The Associate Degree requirements include completion of the:

1. Required Major and Restricted Elective courses with a minimum grade of "C" or better for each course (Required Major and Restricted Elective courses may be substituted with the approval of the Division Chair),
2. General Education requirements, and
3. A minimum of 60 units of degree-applicable courses numbered 001-299. At least 12 units must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see Associate Degree Requirements (<https://nam11.safelinks.protection.outlook.com?url=https%3A%2F%2Ffuturecatalog.cos.edu%2Fassociate-degree-requirements%2F&data=05%7C02%7Cdanielal%40cos.edu%7Ccdf509fcbe0541525de708dd2e8e1629%7Ca1ac1160f96f4e1abad8aa9c4be%7C0%7C0%7C638717909975534704%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJ3D%3D%7C0%7C%7C%7C&sdata=vY%2FtRcsJbw0k6zi04fyP1rWRAAgk6JFJOIWK6ohdDVI%3D&reserved=0>) for additional details).