



# Fresno City College

ELECTRICAL SYSTEMS  
TECHNOLOGY  
2022-2023

Name: \_\_\_\_\_

ID: \_\_\_\_\_

Date: \_\_\_\_\_

Counselor Contact: \_\_\_\_\_

**Major Requirements: 52 units**

**A grade of "C" or better is required in the following courses**

CERTIFICATE OF ACHIEVEMENT (F.8171.CA)	C-ID	Units	Completed	In Progress	Planned
AT 10, Technical Computer Application		3			
EST 50, Introduction to Electrical Systems Technology		2			
EST 51, Direct Current Fundamentals of Electronics		3			
EST 52, Alternating Current Fundamentals		3			
EST 53, Lab Safety Practices		2			
EST 54, Integrated Devices		3			
EST 96D, National Electrical Code		3			
<b>Select minimum of thirty-three (33) additional units:</b>					
EST 55A, Digital Concepts		3			
EST 55B, Facility Automation		3			
EST 55C, SCADA Systems		3			
EST 56A, Wiring Methods		3			
EST 56B, Motor Controls		3			
EST 56C, Variable Frequency Drives & Motion Control		3			
EST 57A, Analog Communications		3			
EST 57B, Digital Communications		3			
EST 57C, Voice and Data Cabling		3			
EST 58, Programmable Logic Controllers		3			
EST 59, Instrumentation Systems		3			
EST 60, A+ PC Maintenance and Repair		3			
EST 61, Network Fundamentals		3			
EST 62, Commercial & Industrial Networking		3			
EST 80, Introduction to Photovoltaics		3			
EST 81, Photovoltaic Systems		3			
EST 82A, Introduction to Robotics		3.5			
EST 82B, Robotic Applications		3.5			
EST 83A, Robotics, Industrial - Introduction		3			
EST 83B, Robotic, Industrial – Advanced Application		3			
EST 84A, Introduction to Biomedical Electronics		3			
EST 96A, National Electrical Code Part 1		3			
EST 96B, National Electrical Code Part 2		3			
EST 96C, National Electrical Code Part 3		3			

**NOTES:**

1. Electrical Systems Technology provides an opportunity for students to prepare for employment in the electronics/electrical industry. Specific occupational preparation is provided in the above program. The student is advised to complete the Electricity Fundamentals 2.
2. Some of the above courses may have prerequisites. See the catalog or schedule of classes.
3. The Certificate of Achievement requires completion of the major (52 units) with a "C" or better grade in each course.