



Fresno City College

ELECTRICAL SYSTEMS
TECHNOLOGY
2024-2025

Name: _____

ID: _____

Date: _____

Counselor Contact: _____

Major Requirements: 53 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 40, Preparing for Employment Opportunities		3			
EST 50, Introduction to Electrical Systems Technology		3			
EST 51, Direct Current Fundamentals of Electronics		3			
EST 52, Alternating Current Fundamentals		3			
EST 53, Lab Safety Practices		2			
EST 54, Semiconductor Devices		3			
EST 55A, Digital Concepts		3			
EST 56A, Wiring Methods		3			
EST 56B, Motor Controls		3			
EST 96D, NFPA 70E – Electrical Safety		3			
Select minimum of thirty-three (33) additional units:					
EST 55A, Digital Concepts		3			
EST 55B, Facility Automation		3			
EST 55C, SCADA Systems		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 81, Photovoltaic Systems		3			
EST 83A, Robotics, Industrial – Introduction.		3			
EST 83B, Robotic, Industrial – Advanced Application		3			
EST 96A, NFPA 70- National Electrical Code Part 1		3			
EST 96B, NFPA 70- National Electrical Code Part 2		3			
EST 96C, NFPA 80B- Electrical Equipment Maintenance		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 (53 units) with a "C" or better grade in each course.