



Fresno City College

ELECTRICAL SYSTEMS
TECHNOLOGY
2023-2024

Name: _____

ID: _____

Date: _____

Counselor Contact: _____

Major Requirements: 52 units

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

NOTES:

ASSOCIATE IN SCIENCE (F.8171.AS)	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-Electrical Safety		3			
Select a minimum of 33 additional units:					
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, Networking 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, Robotics, 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			

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.
2. Some of the above courses may have prerequisites. See the catalog or schedule of classes.
3. The *Associate Degree* requires completion of the major (52 units) with a "C" or better grade in each course. Students must complete one of the three different general education patterns: option 1 – Fresno City College General Education, option 2 – CSU GE Breadth– California State University General Education, OR option 3 – IGETC – Intersegmental General Education Transfer Curriculum for a total of **60 semester units minimum** with a 2.0 or better GPA.