ELECTRICIAN (ELECT)

ELECT 153  National Electrical Code  4 Units
Students will study the National Electrical Code (NEC). The NEC covers
best practices and requirements associated with installations at various
dwellings, from residential housing, commercial properties, and special
occupancies. Students will be able to recognize industry standards and
any electrical code violations.
Lecture Hours: 3  Lab Hours: 3  Repeatable: No  Grading: L
Advisory Level: Read: 2 Write: 2
Transfer Status: None  Degree Applicable: AS
CSU GE: None  IGETC: None  District GE: None
Credit by Exam: Yes

ELECT 154  Blueprint Reading and Rigging  4 Units
Students will learn blueprint reading, troubleshooting electrical
systems, and rigging. This course will cover fundamental skills for
sketching and reading accurate blueprints required to safely install and
troubleshoot various electrical systems. Topics covered include fire alarm
systems, security systems, HVAC, residential/commercial areas, and
troubleshooting common scenarios experienced in the field. Students
will also learn proper and safe methods for rigging, digging, and using
motorized tools.
Lecture Hours: 2.5  Lab Hours: 1.5  Repeatable: No  Grading: L
Advisory Level: Read: 3 Write: 3
Transfer Status: None  Degree Applicable: AS
CSU GE: None  IGETC: None  District GE: None
Credit by Exam: Yes

ELECT 155  Low Voltage Specialty Systems  4 Units
Students will learn low voltage specialty systems, including fire alarms;
security alarms; voice, data, TV, signaling systems; lightning protection
systems; and fiber optic systems. This course will teach students
foundational knowledge and skills required to appropriately install, wire,
and troubleshoot various types of the low voltage specialty system types.
The students will also apply specific National Electric Code requirements
for these low voltage specialty system types.
Lecture Hours: 3  Lab Hours: 3  Repeatable: No  Grading: L
Advisory Level: Read: 3 Write: 3
Transfer Status: None  Degree Applicable: AS
CSU GE: None  IGETC: None  District GE: None
Credit by Exam: Yes