

# Electrical Technology, AAS

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The use of electrical technology in residential, commercial and industrial applications continues to grow rapidly. Electricians install and maintain electrical systems for a variety of purposes, including lighting, appliances, industrial control, security and communications. The Electrical Technology program emphasizes hands-on training integrated with a knowledge of theory and study of the National Electrical Code.

The certificate in Electrical Technology is designed to give students the basic skills to gain entry level employment in the residential and commercial electrical trade. As a requirement for completion, students will sit for their local licensure exam.

After attainment of the certificate, students can complete advanced studies towards the Electrical Technology Associate of Applied Science. This program prepares students to enter the electrical trade in electrical estimating, industrial controls and electrical design.

(Major Code 2260; State CIP Code 46.0302)

- Electrical Technology (<http://www.jccc.edu/academics/industrial-technology/electrical-technology>)

## Associate of Applied Science Degree

### Fall Semester

First Eight Week Session

ELTE 110	AC/DC Circuits*	4
ELTE 115	Print Reading*	2
INDT 155	Workplace Skills	1

Second Eight Week Session

ELTE 122	National Electrical Code I*	4
ELTE 125	Residential Wiring*	4

**Total Hours** **15**

### Spring Semester

First Eight Week Session

ELTE 200	Commercial Wiring*	4
INDT 125	Industrial Safety/OSHA 30	3

Second Eight Week Session

ELTE 150	Solar Electric Systems*	4
ELTE 222	National Electrical Code II*	4

**Total Hours** **15**

**Note: Students are eligible for the Electrical Technology Certificate upon completion of the first two semesters.**

### Fall Semester

ENGL 121	Composition I*	3
ELTE 202	Electrical Estimating*	3
ELTE 225	Industrial Wiring I*	3
AET 160	Programmable Logic Controllers I*	3
MATH 130	Technical Mathematics I* (or higher)	3
HPER 200	First Aid and CPR	2

**Total Hours** **17**

### Spring Semester

Technical Electives 3

Note: Technical Electives are any courses with the ELTE, AET, HVAC, MFAB, INDT, AUTO, ELEC, DRAF or CET prefix.

ELTE 175	Low Voltage Wiring*	3
ELTE 250	Industrial Wiring II*	3
MATH 131	Technical Mathematics II* (or higher)	3
Social Science and/or Economics Elective^		3

Humanities Elective ^

3

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**Total Hours**

**18**

^ See all AAS general education electives (<http://catalog.jccc.edu/degreerequirements/associate-applied-science>)

**Total Program Hours: 65**