Technical Studies (Associate of Applied Science), Electrical Concentration

This program is designed to prepare students to work as an Electrician. Electricians install electrical systems in structures; they install wiring and other electrical components, such as circuit breaker panels, switches, and light fixtures, and they follow blueprints, the National Electrical Code® and state and local codes. This program covers four levels of training based on curriculum developed by the National Center for Construction Education and Research (NCCER). To prepare trainees for a career in the electrical field, NCCER offers a comprehensive, 4-level Electrical curriculum that complies with DOL time-based standards for apprenticeship. Students who successfully complete the program will be nationally certified by NCCER.

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Source: https://www.nccer.org/workforce-development-programs/disciplines/craft-details/electrical

To receive any of the credentials outlined below (Certificate of Technical Studies, Technical Diploma, or Associate of Applied Science), the student must:

- Complete the program of study outlined below.
- Earn a "C" or better in all courses required for the completion of the program.

Program Outcomes. Upon successful completion of the program, the graduate will be able to:

- 1. Apply electrical theory and tools in residential and construction environments.
- 2. Integrate various electrical devices to construct electrical systems.
- 3. Employ electrical calculations to size and troubleshoot electrical systems.
- 4. Demonstrate knowledge of the National Electrical Code and its application to various industries.
- 5. Demonstrate proper safety, use, maintenance, and storage of electrical equipment.

PROGRAM OF STUDY

First Semester		Credit Hours
CORE 1003	Introduction to Craft Skills	3
ELEC 1116	Electrical Level 1	6
ENGL 1013	English Composition I	3
Gen Ed Math	Any department-approved General Education course in Mathematics	3
	Semester Total:	15
Second Semester		Credit Hours
ELEC 1216	Electrical Level 2 Part 1	6
ELEC 1226	Electrical Level 2 Part 2	6
Gen Ed Humanities	Any department-approved, SACS-COC-accepted General	3
	Education course in Humanities	
	Semester Total:	15
Third Semester		Credit Hours
ELEC 2316	Electrical Level 3 Part 1	6
ELEC 2326	Electrical Level 3 Part 2	6
Gen Ed Soc Sci	Any department-approved General Education course in the Social Sciences	3

Fourth Semester		Credit Hours
ELEC 2416	Electrical Level 4 Part 1	6
ELEC 2426	Electrical Level 4 Part 2	6
Gen Ed Phys Sci	Any department-approved General Education course in the	3
	Physical Sciences	
	Semester Total:	15
Technical Studi	es AAS, Electrical Concentration Total Program Credit Hours:	60
Electrical Credentials	s Available	
NCCER Electrical Le	vel 1 courses (9 credit hours)	Credit Hours
CORE 1003	Introduction to Craft Skills	3
ELEC 1116	Electrical Level 1	6
	NCCER Electrical Level 1:	9
NCCER Electrical Le	Credit Hours	
ELEC 1216	Electrical Level 2 Part 1	6
ELEC 1226	Electrical Level 2 Part 2	6
	CTS, NCCER Electrical Level 2 (Level 1 and Level 2 courses):	21
NCCER Electrical Le	Credit Hours	
ELEC 2316	Electrical Level 3 Part 1	6
ELEC 2326	Electrical Level 3 Part 2	6
N	CCER Electrical Level 3 (Level 1, Level 2, and Level 3 courses):	33
NCCER Electrical Le	Credit Hours	
ELEC 2416	Electrical Level 4 Part 1	6
ELEC 2426	Electrical Level 4 Part 2	6

15

45

Semester Total:

For more information, contact the Division of Technical Education at 225-216-8367.

TD, NCCER Electrical Level 4 (Level 1, Level 2, Level 3, and Level 4 courses):