

**Associate in Applied Science in General Technology
Electricity Option
(EDGE/Cooperative Program with Career/Technical Centers)**

The Associate in Applied Science in General Technology: Electricity Option is an EDGE/collaborative program between WVSTC and Career/Technical Centers. Students who complete the Electricity Program and transfer to WVSTC will be granted 30 credit hours toward the A.A.S. in General Technology: Electricity Option upon completion of all courses in the Electricity program and a passing score of 75% or above on the state exam.

Careers for Electricity

The program prepares the graduates for employment and/or further on-the-job training in the field of basic DC and AC theory, residential and commercial wiring, motor circuits and control according to the National Electrical Code. Typical jobs for graduates of this program may include:

- Contract Residential and Commercial Electrician
- Industrial Electrician
- Basic knowledge to become a Mining Electrician

For More Information, Contact
Ms. Sandra LaVoie, Program Director
Cole Complex 201
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Program Learning Outcomes

Upon completion of this program the student will be able to:

1. Pursue careers in Electricity.
2. Use meters and construct circuits.
3. Install industrial and commercial wiring according to the National Electrical Code.
4. Prepare for the state license testing.
5. Interpret basic circuits, devices, and wiring techniques used in residential dwellings.
6. Interpret control circuits, pilot devices, motor controls, relays, motor braking circuits, alternators and generators and AC and DC motors.
7. Analyze the operation of programmable logic controllers, fiber optics, and lasers.

Curriculum/Suggested Sequence

(61-62 hours required for graduation) / (30 hours transfer from career center)

FIRST SEMESTER

COLL 101	College 101	3
HUM 101	Intro to Humanities	3
ENGL 101	English Composition I OR	
ENG 110	English Composition I	3
MATH 100	Intermediate Algebra OR	
BST 104	Business Math	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	15

SECOND SEMESTER

ENG 120	Technical Writing OR	
BST 230	Bus Comm & Ethics	
CS 106	Intro to Comp & Office Appl OR	3
BST 240	Fund of Bus Computer Tech	3
BST 298	Business Studies Seminar	1
Elective	Natural Science Elective	3-4
Elective	Social Science Elective	3
Elective	Restricted Elective	<u>3</u>
	Total Credits	16-17

Restricted Electives (Choose any two courses) - BST 106,151, 180, 201,202, 205,255, ITEC - 180, 101, CS 109, CO-OP, and other courses as approved by program director.

Natural Science Electives (Choose one) – BIOL 101, CHEM 100, 101, PHYS 110, 102, 120, 170, 191 & 203

Social Science Electives (Choose one) – SOC 101, POSC 100, 101, PSYC 151, ECON 201, 202

Career Technical Center Courses-Transfer 30 credit hours to WVSTC

WVEIS Code 1763	Fundamentals of Electricity	3
WVEIS Code 1765	Industrial & Commercial Writing	4
WVEIS Code 1767	National Electric Code	3
WVEIS Code 1769	Residential Wiring	4
WVEIS Code 1771	Rotating Devices & Control Circuitry	4
WVEIS Code 1601	Basic Control Circuits	4
WVEIS Code 1762	Blueprint Reading for Electricians	4
WVEIS Code 1766	Integrated Electrical Lab OR	
WVEIS Code 1773	Special Applications in Electronics	4

