

# Electricity

## Certificate

**Program Coordinator:** Donnie Melvin • ISC 142A • 276-739-2453

**Length:** Two semesters (one year)

**Purpose:** The Certificate program in Electricity is designed to prepare the student for full-time employment as an electrician, immediately upon completion of the program. A student who completes the program is capable of performing the job skills normally expected of beginning electricians, working with a licensed electrician.

**Occupational Objectives:** Residential, industrial, or maintenance electrician

**Admission Requirements:** A student eligible for admission to the College can normally be considered for admission to the Electricity curriculum. Proficiency in high school English is required. Students who are not proficient in English will be required to correct their deficiencies in developmental courses.

**Program Requirements:** Approximately two-thirds of the curriculum will include courses in electricity, with the remaining courses in related subjects, and general education. Instruction will include both the theoretical concepts and practical applications needed for future success as an electrician. Upon completion of the two-semester curriculum listed, the student will be awarded a Certificate in Electricity.

**Virginia Tradesman Certification Program:** Students who seek the Journeyman or Master levels of certification may, with appropriate documentation, help meet the practical experience requirement through the Cooperative Education Program.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
<b>First Semester (Fall)</b>				
ELE 133	Practical Electricity I	2	2	3
ELE 111	Home Electric Power I	2	3	3
ENG 111 or 115	College Composition I or Technical Writing	3	0	3
SDV 101	Orientation to College Success	1	0	1
EEE	<sup>1</sup> General Education Elective or Co-op Education	3	0	3
SAF 130	Industrial Safety OSHA-10	1	0	1
<b>Total</b>		<b>12</b>	<b>5</b>	<b>14</b>
<b>Second Semester (Spring)</b>				
ELE 134	Practical Electricity II	2	2	3
ELE 141	DC & AC Machines	3	3	4
ELE 112	Home Electric Power II	2	3	3
ELE 131	National Electric Code I	3	0	3
MTH 111	Basic Technical Mathematics	3	0	3
<b>Total</b>		<b>13</b>	<b>8</b>	<b>16</b>
<b>Total Minimum Credits Required for Certificate</b>				<b>30</b>

Approved general education electives are listed at <http://www.vhcc.edu/GenEdCore>.