

# Technical Studies

## Electrical Technology

### *Associate in Applied Science*

The purpose of this curriculum is to better prepare individuals for the rapidly changing environment of industry and manufacturing. Very broad state guidelines for the course of studies have allowed local industry's requirements and future needs to be better incorporated into



the curriculum. The Technical Studies in Electrical Technology has been constructed in direct response to regional requirements allowing for a tailored educational program to be developed in a very short time frame. This format has also incorporated a work-based learning component that allows the College to provide college credit for on-the-job training such as apprenticeships, co-ops, and in-house training programs when appropriate. Graduates in a Technical Studies program may find employment in a wide variety of technology areas.

Technical Studies curriculums leading to Associate in Applied Science degrees encompass a wide area of emphasis including:

- Building Trades
- Computer Network Specialist
- Electrical Technology
- HVAC
- Industrial Maintenance I
- Machine Technology
- Nuclear Support Technology
- Welding

**Central Virginia Community College**

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New core curriculum for each area includes mathematics, team-building, technical writing, computer applications, and work-based learning. For further information regarding course content or scheduling of an Electrical Technology curriculum or any other Technical Studies program contact the Counseling Center.

## Technical Studies: Electrical Technology — Degree Requirements

Course No.	Course Title	First Year	
		1st Sem.	2nd Sem.
ELE 113-114	Electricity I-II	3	3
ELE 123-124	Electrical Applications I-II	1	1
MTH 103-104	Applied Technical Mathematics I-II	3	3
	Social Science Elective <sup>1</sup>	3	3
ELE 136	National Electrical Code – Commercial <sup>2</sup>	3	-
ENG 111	College Composition I	3	-
SDV 100	Orientation	1	-
	Computer Elective <sup>3</sup>	-	3
HLT 100	First Aid and CPR <sup>4</sup>	-	2
IND 106	Industrial Engineering Technology	-	3
<b>Total</b>		<b>17</b>	<b>18</b>

Course No.	Course Title	Second Year	
		1st Sem.	2nd Sem.
ELE 211-212	Electrical Machines I-II	4	4
ELE 233-234	Programmable Logic Controller Systems I-II	3	3
ETR 147	Amplifiers	4	-
	Humanities Elective <sup>1</sup>	3	-
IND 140	Quality Control	2	-
ENG 131	Technical Report Writing I	-	3
	Work-Based Learning <sup>5</sup>	-	6
<b>Total</b>		<b>16</b>	<b>16</b>

**Minimum credits required to graduate 67**

<sup>1</sup> See course catalog for available courses.

<sup>2</sup> ELE 137 will satisfy the ELE 136 requirement.

<sup>3</sup> Select from BUS 226 Computer Business Applications or ITE 115 Introduction to Computer Applications and Concepts.

<sup>4</sup> Any two hours of HLT or PED will satisfy the HLT 100 requirement.

<sup>5</sup> Work-based learning is satisfied by completion of any one, or a combination of: Journeyman Card, three credit co-op work experience, or Standard Industry Examination.