Electrical/Electronics Technology

D 35 22 0 Diploma

The Electrical/Electronics Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, commercial and industrial facilities. Training, most of which is hands-on, includes such topics as AC/DC theory, basic wiring practices, electronics, programmable logic controllers, industrial motor controls, the National Electric Code, and other subjects as local needs require. Upon completion of this program, students will receive a diploma and certificates in Electrical/Electronics Technology. Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice, assisting in the layout, installation, and maintenance of electrical/electronic systems.

General Education Courses

Communications		*[prerequisite]*	*Seq*	*Class*	*Lab*	*Credits*
ENG 102	Applied Communications II		F1	3	0	3
COM 101	Workplace Communications		S1	3	0	3

Major Courses: Core

Core courses		*[prerequisite]*	*Seq*	*Class*	*Lab*	*Credits*
ELC 112	DC/AC Electricity		F1	3	6	5
ELC 113	Basic Wiring I		F1	2	6	4
ELC 121	Electrical Estimating		F1	1	2	2
ELC 125	Diagrams & Schematics		F1	1	2	2
ELC 127	Software for Technicians		F1	1	3	2
ELC 114	Basic Wiring II		S1	2	6	4
ELC 117	Motors and Controls		S1	2	6	4
ELC 118	National Electrical Code		S1	1	2	2
ELC 119	NEC Calculations		S1	1	2	2
ELC 215	Electrical Maintenance		S1	2	3	3

Other Required Hours

Courses		*[prerequisite]*	*Seq*	*Class*	*Lab*	*Credits*
CIS 111	Basic PC Literacy		F1	2	0	2
COE 111	Co-op Work Experience I	[2.0 GPA/9 CrHrs in Major]	S1	0	10	1

Total Semester Hours Required for Diploma: 39

Electrical/Electronics Technology

C 35 22 0I Certificate: Electrical/Electronics Technology Level I

The Electrical/Electronics Technology curriculum is designed to provide training for personnel interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities. Training, most of which is hands-on, includes such topics as AC/DC theory, basic wiring practices, electronics, programmable logic controllers, industrial motor controls, the National Electric Code, and other subjects as local needs require. Upon completion of this program, students will receive a certificate in Electrical/Electronics Technology. Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice, assisting in the layout, installation, and maintenance of electrical/electronic systems.
Prerequisites: None

Major Courses: Core

Core courses		*[prerequisite]*	*Seq*	*Class*	*Lab*	*Credits*
ELC 112	DC/AC Electricity		F1	3	6	5
ELC 113	Basic Wiring I		F1	2	6	4
ELC 121	Electrical Estimating		F1	1	2	2
ELC 125	Diagrams & Schematics		F1	1	2	2

Total Semester Hours Required for Certificate: 13

C 35 22 0II Certificate: Electrical/Electronics Technology Level II

The Electrical/Electronics Technology curriculum is designed to provide training for personnel interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities. Training, most of which is hands-on, includes such topics as AC/DC theory, basic wiring practices, digital electronics, programmable logic controllers, industrial motor controls, the National Electric Code, and other subjects as local needs require. Upon completion of this program, students will receive a certificate in Electrical/Electronics Technology. Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice, assisting in the layout, installation, and maintenance of electrical/electronic systems.
Prerequisites: Electrical/Electronics Technology Level One

Major Courses: Core

Core courses		*[prerequisite]*	*Seq*	*Class*	*Lab*	*Credits*
ELC 114	Basic Wiring II		S1	2	6	4
ELC 117	Motors and Controls		S1	2	6	4
ELC 118	National Electrical Code		S1	1	2	2
ELC 119	NEC Calculations		S1	1	2	2
ELC 215	Electrical Maintenance		S1	2	3	3

Total Semester Hours Required for Certificate: 15

College of The Albemarle

Diploma-Electrical/Electronics Technology
(D 35 22 0)
Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Title	Sequence	Credit	Grade	Semester
I. GENERAL EDUCATION COURSES				
Communications				
ENG 102 Applied Communications II	F1	3	_____	_____
COM 101 Workplace Communications	S1	3	_____	_____
II. MAJOR COURSES:				
A. CORE				
ELC 112 DC/AC Electricity	F1	5	_____	_____
ELC 113 Basic Wiring I	F1	4	_____	_____
ELC 121 Electrical Estimating	F1	2	_____	_____
ELC 125 Diagrams & Schematics	F1	2	_____	_____
ELC 127 Software for Technicians	F1	2	_____	_____
ELC 114 Basic Wiring II	S1	4	_____	_____
ELC 117 Motors & Controls	S1	4	_____	_____
ELC 118 National Electric Code	S1	2	_____	_____
ELC 119 National Electric Code Calculations	S1	2	_____	_____
ELC 215 Electrical Maintenance	S1	3	_____	_____
C. OTHER MAJOR HOURS				
CIS 111 Basic PC Literacy	F1	2	_____	_____
COE 111 Co-op Work Experience I [P=2.0 GPA/9 CrHrs in Major]	S1	1	_____	_____
Total Semester Hours Required for Diploma		39		

College of The Albemarle

Electrical/Electronics Technology
Certificate-(C 35 22 0I)
Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Certificate – Electrical/Electronics Technology: (C35220 I)

Title	Sequence	Credit	Grade	Semester
II. MAJOR COURSES: CORE				
ELC 112 DC/AC Electricity	F1	5	_____	_____
ELC 113 Basic Wiring I	F1	4	_____	_____
ELC 121 Electrical Estimating	F1	2	_____	_____
ELC 125 Diagrams & Schematics	F1	2	_____	_____
Total Semester Hours Required for Diploma		13		

College of The Albemarle

Electrical/Electronics Technology
Certificate-(C 35 22 0II)
Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Title	Sequence	Credit	Grade	Semester
II. MAJOR COURSES: CORE				
ELC 114 Basic Wiring II	S1	4	_____	_____
ELC 117 Motors and Controls	S1	4	_____	_____
ELC 118 National Electric Code	S1	2	_____	_____
ELC 119 NEC Calculations	S1	2	_____	_____
ELC 215 Electrical Maintenance	S1	3	_____	_____
Total Semester Hours Required for Diploma		15		