

**TRI-COUNTY**  
COMMUNITY COLLEGE

**A.A.S. IN  
ELECTRICAL  
ENGINEERING  
TECHNOLOGY**



**Nicholas Roberson**  
Class of 2017  
A.A.S. in Electrical Engineering Technology

**2018-2019**

# A.A.S. IN ELECTRICAL ENGINEERING TECHNOLOGY

**(A40180)** The Electrical Engineering Technology curriculum is designed to provide training for entry-level technicians desiring a career in electrical maintenance and management or in the design, planning, construction, development, and installation of electrical systems, machines, and power generating equipment.

Beginning with electrical fundamentals, course work progressively introduces electronics, electrical machines and controls, and electrical power systems. Other course work includes the study of various fields associated with the electrical/electronic industry.

Graduates may seek employment as technicians, engineering assistants, technical managers, or salespersons in electrical generation/distribution, industrial maintenance, electronic repair, or other fields requiring a broad-based knowledge of electrical and electronic concepts.

Students may be required to take one or more Developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of contact hours listed for graduation.

<b>General Education Requirements</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ENG	111	Writing & Inquiry	3	0	3
ENG	112	Writing/Research in the Disciplines	3	0	3
MAT	121	Algebra/Trigonometry I <b>OR</b>	2	2	3
MAT	171	Precalculus Algebra	2	2	4
*Humanities Gen Ed Requirement			3	0	3
*Social Science Gen Ed Requirement			3	0	3
			<b>Total</b>		<b>15-16</b>

<b>Major Requirements</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
ELC	135	Electrical Machines I	2	2	3
ELC	128	Introduction to PLC	2	3	3
ELC	231	Electric Power Systems	3	2	4
ELN	131	Analog Electronics	3	3	4
ELN	133	Digital Electronics	3	3	4
			<b>Total</b>		<b>23</b>

<b>Major Electives</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ALT	120	Renewable Energy Tech	2	2	3
ELC	113	Residential Wiring	2	6	4
ELC	115	Industrial Wiring	2	6	4
ELC	118	National Electrical Code	1	2	2
ELC	119	NEC Calculations	1	2	2
ELC	132	Electrical Drawings	1	3	2
ELC	215	Electrical Maintenance	2	3	3
ELN	231	Industrial Controls	2	3	3
EGR	150	Introduction to Engineering	1	2	2
EGR	120	Engineering and Design Graphics	2	2	3
CIS	110	Introduction to Computers	2	2	3
			<b>Total</b>		<b>31</b>

<b>Other Requirements</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ACA	111	College Student Success	1	0	1
			<b>Total</b>		<b>1</b>

**TOTAL HOURS 70-71**

*\*Please see the section titled "General Education Requirements for A.A.S. programs" at the end of the Program of Study section for specific courses that fulfill these requirements.*

# 2018-2019

# DIPLOMA IN ELECTRICAL ENGINEERING TECHNOLOGY

(D40180)

			Lecture	Lab	Credit
ENG	111	Writing & Inquiry	3	0	3
MAT	121	Algebra/Trigonometry I <i>OR</i>	2	2	3
MAT	171	Precalculus Algebra	2	2	4
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
ELC	135	Electrical Machines I	2	2	3
ELC	128	Introduction to PLC	2	3	3
ALT	120	Renewable Energy Tech	2	2	3
ELC	115	Industrial Wiring	2	6	4
ELC	132	Electrical Drawings	1	3	2
ELC	215	Electrical Maintenance	2	3	3
ELC	231	Electric Power Systems	3	2	4
EGR	150	Introduction to Engineering	1	2	2
EGR	120	Engineering and Design Graphics	2	2	3
				<b>Total</b>	<b>38-39</b>

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