



Engage... Inspire... Enrich...
student learning

TRI-COUNTY
COMMUNITY COLLEGE

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 Guided Studies 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.

Fall Semester 1		Lecture	Lab	Credit
ACA 111	College Student Success	1	0	1
ELC 111	Introduction to Electricity	2	2	3
ELC 131	DC/AC Circuit Analysis	4	3	5
ELC 132	Electrical Drawings	1	3	2
EGR 131	Introduction to Electronics Technology	1	2	2
ENG 111	Expository Writing	3	0	3
CIS 110	Introduction to Computers	2	2	3
		Total		19

Spring Semester 1		Lecture	Lab	Credit
EGR 150	Introduction to Engineering	1	2	2
ELN 131	Semiconductor Applications	3	3	4
ELN 133	Digital Electronics	3	3	4
ENG 113	Literature Based Research	3	0	3
	OR			
ENG 114	Professional Research & Reporting	3	0	3
MAT 161	College Algebra	3	0	3
		Total		16

Fall Semester 2		Lecture	Lab	Credit
ELC 135	Electrical Machines I	2	2	3
ELC 128	Introduction to PLC	2	3	3
EGR 120	Engineering and Design Graphics	2	2	3
PHY 131	Physics - Mechanics	3	2	4
	OR			
PHY 151	General Physics I	3	2	4
Social Science Elective: ECO 151, ECO 251, GEO 110, GEO 111, GEO 131, PSY 118, PSY 135, PSY 150, SOC 210, SOC 215		3	0	3
		Total		16

Spring Semester 2		Lecture	Lab	Credit
ELC 231	Electric Power Systems	3	2	4
ELC 136	Electrical Machines II	3	3	4
ELC 130	Advanced Motors and Controls	2	2	3
ELC 233	Energy Management	2	2	3
Humanities Elective ART, DRA, ENG, HUM, MUS, PHI, or REL		3	0	3
		Total		17

TOTAL HOURS 65

The mission of Tri-County Community College is to engage students in learning, help students succeed, and enrich the communities we serve.