

Electrical Technology A.A.S. (ELT)

This program is designed to prepare the student for employment as an electrical/electronics technician. The program provides students with knowledge and experiences in the areas of electrical wiring, blueprint reading, analog and digital electronics, programmable controllers, and industrial control systems.

Jobs for which graduates are expected to be qualified include electrical/electronics technician, field engineer, industrial maintenance technician, industrial equipment installer, and technical sales representative.

Upon successful completion of this program, graduates will be able to:

- connect a variety of electrophysical sensing devices into circuits which can convert physical changes into voltage changes capable of activating prime movers such as motors or relays.
- interpret commercial and industrial electrical blueprints.
- demonstrate effective communication skills by writing technical reports based on laboratory experiences.
- demonstrate critical thinking/problem-solving abilities by analyzing a nonfunctioning electrical circuit, determining the problem, and restoring circuit operation.
- demonstrate interpersonal relations, teamwork, and work ethics through group laboratory projects.

First Semester		Credits
BGT 110	Fundamentals of Technology	3
ELE 120	DC Circuits	4
ELE 130	Digital Fundamentals	4
MAT 130*	Industrial Mathematics	3
HAC 119	Construction Print Reading	3
		17
Second Semester		
ELE 165	AC Circuits	4
ELE 175	Introduction to Microprocessors	4
ENG 105	Research and Composition	3
HAC 140	Electrical Maintenance I	3
Elective	General Education	3
		17
Third Semester		
ELE 210	Electronic Circuits	4
ELE 215	Industrial Electronics	2
ELE 235	Programmable Controllers	2
HAC 155	Electrical Maintenance II	3
HAC 160	Residential Wiring	3
		14
Fourth Semester		
ENG 107+	Writing in the Workplace	3
HAC 250	Commercial and Industrial Wiring	3
PHY 201	Introduction to Physics I	4
Electives	Social Science/Humanities	6
		16
Credit Total		64

*MAT 160 or higher level courses will also satisfy the mathematics requirement.

+ENG 106 may be substituted for ENG 107.

Prior Learning Assessment: Previous job training, certificates and work experience that may qualify for college credit (*see academic advisor*).

Gateway Courses: Based on placement testing in reading, writing and math, these prerequisite courses may have to be taken before placement in College English or Mathematics beginning the first semester and concurrently.

RSS 099	Basic Skills Reading	3
RSS 100	Critical Reading	3
ENG 099	Basic Skills Writing	3
ENG 100	Fundamentals of Writing	3
MAT 090	Mathematical Literacy	6
ESL 251	English for Academic Purpose	6
<i>(Required for ESL students only.)</i>		

Please note, taking gateway courses will increase your time for completion.