

## **CAREER PROGRAMS**

### **Electronics Technology**

#### **Electrical Maintenance Certificate**

*This 10 credit-hour certificate program is designed to prepare students for careers in the field of electrical installation and service, and other related facilities or industrial electronics maintenance areas. The curriculum is tailored to provide entry-level career training in the least amount of time. Emphasis is placed on equipment operation, application, installation and servicing. Courses specific to instruction include: basic electricity and electronics, residential/commercial electrical wiring and codes, and industrial control systems. Topics within these courses involve: practical electrical concepts and measurements, digital and analog circuits, hydraulic and pneumatic controls, AC/DC motors, optics and sensors, and programmable logic controllers.*

*Students completing this program may find employment as electrical technicians, electrician apprentices, electricians, and facilities or plant maintenance technicians.*

*Electrical Maintenance students may also continue their education by pursuing an associate in applied science degree. Students considering this option are encouraged to meet with the program coordinator and their Student Development faculty member prior to beginning the program, and also when planning their schedule each semester.*

ELT	110	Introductory Electronics .....	4
ELT	142	Electrical Wiring .....	2
ELT	215	Industrial Control Systems .....	4

#### **Electronics Certificate**

*This 16 credit-hour certificate program is designed to prepare students for careers in the field of electronics and other related technology industries. The curriculum is very flexible as it allows students to choose from a number of electronics courses in many diverse technology areas and is tailored to provide entry-level career training in a relatively short time. A broad range of electronics courses provides considerable emphasis on analysis, operation, application, installation and servicing. Many courses do not require a prerequisite. However, for those courses that do, please consult with the program coordinator.*

*Students completing this program may find employment in various entry-level positions in technical sales, manufacturing and quality control, and customer service.*

*Students may also continue their education by pursuing an associate in applied science degree. Students considering this option are encouraged to meet with the program coordinator and a Student Development faculty member prior to beginning the program, and also when planning their schedule each semester.*

ELT	101	DC Network Analysis .....	4
ELT	102	AC Network Analysis .....	4
ELT	103	RF Network Analysis.....	4
ELT	105	Electronic Product Documentation.....	3
ELT	110	Introductory Electronics .....	4
ELT	111	Semiconductor Devices and Circuits.....	2
ELT	125	Fiber Optics .....	2
ELT	130	Fluid Power.....	3
ELT	135	Optics and Sensors .....	2

ELT	140	Programmable Logic Controllers.....	2
ELT	142	Electrical Wiring .....	2
ELT	161	Industrial Control Applications.....	3
ELT	203	Digital Electronics.....	4
ELT	204	Analog Electronics .....	4
ELT	207	Communications Systems .....	4
ELT	215	Industrial Control Systems .....	4
ELT	218	Microprocessors and Microcomputers.....	4