

Electronics Technology ET14

Type
Diploma

The Electronics Technology Diploma program is a sequence of courses designed to prepare students for careers in electronics technology professions. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. Program graduates are to be competent in the general areas of communications, mathematics, computer literacy, and interpersonal relations. The program emphasizes a combination of electronics technology theory and practical application necessary for successful employment using both manual and computerized electronics systems. Program graduates receive an Electronics Technology Diploma which qualifies them as electronics technicians with a specialization in biomedical instrumentation, communications electronics, computer electronics, general electronics, industrial electronics, or telecommunications electronics.

* **Students** - Choose and complete one of the four listed specializations:

- Communications Electronics Technology Specialization 8CE2
- Telecommunications Electronics Technology Specialization 8TE2
- Industrial Electronics Technology Specialization 8IE2
- Field Occupation Specialization 8FC2
- Biomedical Instrumentation Technology Specialization 8BI2

Basic Skills Courses — 8.00 Hours

Item #	Name	Credits
EMPL 1000	Interpersonal Relations & Professional Development	2
ENGL 1010	Fundamentals of English I	3
	MATH 1012, MATH 1013	3

Occupational Courses — 30.00 Hours

Item #	Name	Credits
ELCR 1005	Soldering Technology	1
ELCR 1010	Direct Current Circuits	6
ELCR 1020	Alternating Current Circuits	7
ELCR 1030	Solid State Devices	5
ELCR 1040	Digital & Microprocessor Fundamentals	5
ELCR 1060	Linear Integrated Circuits	3
	Occupational Elective (3 hrs)	3

Communications Electronics Technology Specialization 8CE2 — 17.00 Hours

Item #	Name	Credits
ELCR 2210	Analog Communications	5
ELCR 2220	Digital Communications	3
ELCR 2230	Antenna and Transmission Lines	3
ELCR 2240	Microwave Communications and Radar	3
ELCR 2250	Optical Communication Techniques	3

Telecommunications Electronics Technology Specialization 8TE2 — 18.00 Hours

Item #	Name	Credits
ELCR 2170	Computer Hardware	5
ELCR 2190	Networking I	3
ELCR 2590	Fiber Optic Systems	3
ELCR 2600	Telecommunication & Data Cabling	3
ELCR 2620	Telecommunications Systems Installation, Programming & Data Transmission	4

Industrial Electronics Technology Specialization 8IE2 — 16.00 Hours

Item #	Name	Credits
ELCR 2110	Process Control	3
ELCR 2120	Motor Controls	3
ELCR 2130	Programmable Controllers	3
ELCR 2140	Mechanical Devices	2
ELCR 2150	Fluid Power	2
ELCR 2160	Advanced Microprocessors & Robotics	3

Field Occupation Specialization 8FC2 — 16.00 Hours

Item #	Name	Credits
	Occupationally Related Electives	

Biomedical Instrumentation Technology Specialization 8BI2 — 18.00 Hours

Item #	Name	Credits
ALHS 1011	Structure & Function of the Human Body	5
ALHS 1090	Medical Terminology for AHS	2
BMET 1231	Medical Equipment Function & Operation I	4
BMET 2242	Medical Equipment Function & Operation II	4
BMET 2343	Internship Medical Systems	3
	Minimum Credit Hours for Graduation	54