

PROGRAMS

ELECTRONICS ENGINEERING TECHNOLOGY - AUTOMATION & CONTROL

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The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify development and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

A broad-based core of courses including basic electricity, solid-state fundamentals, digital concepts, and microprocessors ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Special emphasis is placed on computer literacy, computer-aided design (CAD), data communications, electronic communications systems (telecommunications), as well as industrial controls (Programmable Logic Controller), microprocessor systems, and industrial control transducers. Online (Internet) experience is also an integral part of the EET program as much of the coursework provides hands-on laboratory experiments that often include accessing the web.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, or production control technician.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and evaluate a broad variety of electronic technologies.
- Exhibit industry standard electronics skills and competencies.
- Analyze and evaluate a wide variety of electronics industry standard technologies.

Electronics Engineering Technology – Automation and Control Degree – A40200

First Year		
Fall		Credit Hours
ACA 111	College Student Success	1
CIS 110	Introduction to Computers	3
DFT 151	CAD I	3
ELC 131	Circuit Analysis I	4
MAT 171	Precalculus Algebra	4
	Credit Hours	NaN
Spring		Credit Hours
ELN 131	Analog Electronics I	4
ELN 133	Digital Electronics	4
ENG 111	Writing and Inquiry	3
HYD 110	Hydraulics/Pneumatics I	3
ISC 112	Industrial Safety	2
	Credit Hours	16
Summer		Credit Hours
MEC 130	Mechanisms	3
Social Science elective *		3
	Credit Hours	6
Second Year		
Fall		Credit Hours
ATR 212	Industrial Robots	3
ELN 132	Analog Electronics II	4

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ELN 260	Prog Logic Controllers	4
ENG 112 or ENG 114	Writing and Research in the Disciplines Professional Research & Reporting	3
Humanities elective *		3
	Credit Hours	17
Spring		Credit Hours
ATR 214	Advanced PLCs	4
CTS 120	Hardware/Software Support	3
ELC 117	Motors and Controls	4
ELN 234	Communication Systems	4
	Credit Hours	15
	Total Credit Hours	NaN

Electronics Engineering Technology Part-time Pathway

Term 1		Credit Hours
ACA 111	College Student Success	1
ELC 131	Circuit Analysis I	4
	Credit Hours	NaN
Term 2		Credit Hours
ELC 117	Motors and Controls	4
HYD 110	Hydraulics/Pneumatics I	3
ISC 112	Industrial Safety	2
	Credit Hours	9
Term 3		Credit Hours
MEC 130	Mechanisms	3
	Credit Hours	3
Term 4		Credit Hours
ELN 260	Prog Logic Controllers	4
Social Science or Humanities Elective *		3
	Credit Hours	7
Term 5		Credit Hours
ELN 131	Analog Electronics I	4
ENG 111	Writing and Inquiry	3
	Credit Hours	7
Term 6		Credit Hours
CIS 110	Introduction to Computers	3
MAT 171	Precalculus Algebra	4
	Credit Hours	7
Term 7		Credit Hours
DFT 151	CAD I	3

ELN 132	Analog Electronics II	4
	Credit Hours	7
Term 8		Credit Hours
CTS 120	Hardware/Software Support	3
ELN 133	Digital Electronics	4
	Credit Hours	7
Term 9		Credit Hours
ENG 112 or ENG 114	Writing and Research in the Disciplines Professional Research & Reporting	3
Social Science or Humanities Elective *		3
	Credit Hours	6
Term 10		Credit Hours
ATR 212	Industrial Robots	3
	Credit Hours	3
Term 11		Credit Hours
ATR 214	Advanced PLCs	4
ELN 234	Communication Systems	4
	Credit Hours	8
	Total Credit Hours	NaN

Electronics Engineering Technology – Mechatronics Certificate – C40200M

First Year		
Fall		Credit Hours
ELC 131	Circuit Analysis I	4
ELN 260	Prog Logic Controllers	4
	Credit Hours	NaN
Spring		Credit Hours
ELC 117	Motors and Controls	4
HYD 110	Hydraulics/Pneumatics I	3
ISC 112	Industrial Safety	2
	Credit Hours	9
	Total Credit Hours	NaN

Electronics Engineering Technology - CCP

Courses		Credit Hours
ACA 111	College Student Success	1
ELC 131	Circuit Analysis I	4
ELN 131	Analog Electronics I	4
ELN 133	Digital Electronics	4
ELN 260	Prog Logic Controllers	4
	Total Credit Hours	NaN

