



ELECTRONIC TECHNOLOGY

The Associate of Applied Science Degree in Electronic Technology prepares graduates for a career as an Electronics Technician, with job skills that include basic electrical system installation, operations, maintenance, troubleshooting and service. This degree will provide a solid education in DC/AC electrical theories, electrical wiring, digital devices, Programmable Logic Controller (PLLC) Systems, motors, microprocessor systems and basic computer maintenance. Students learn the theory and practice of electronics, as well as foundational career skills such as business communication and interpersonal relations. Knowledge is reinforced through hands-on laboratory exercise using industry-standard equipment. Upon completion of the Associate of Applied Science degree program, students could choose to join the workforce or pursue an advanced degree at a university.

CAREER OPPORTUNITIES

The Electronics Technician has career opportunities in many entry-level areas such as:

- **Electronic Equipment Installation and Repair**
- **Maintenance Technician**
- **Broadcast Communications Technician**
- **System Technician**
- **Plant Technician**
- **Telephone Technician**
- **Fiber Installation**
- **Maintenance Testing**
- **Troubleshooting and Repair**

PLACEMENT

A job placement service is provided for all John A. Logan College graduates in an effort to assist students in finding gainful employment. Each year, new graduates prepare or update resumes and submit them to the College Placement office. Employers then contact the College to arrange for interviews with qualified students

CURRICULUM

FIRST YEAR – FALL SEMESTER

COURSE		CREDITS
ELT 102	Basic Electricity and Wiring	4
ELT 111	Digital Electronics	6
MAT 113	Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 120 Elementary Statistics	3-4
MFT 103	Industrial Robots and PLCs	3
		16-17

FIRST YEAR – SPRING SEMESTER

COURSE		CREDITS
ELT 103	Applied DC/AC Circuits	4
ELT 104	Introduction to VFDs	2
ELT 150	Applied Solid State Electronics	4
ELT 200	Introduction to Microprocessors	3
MFT 201	PLC Manufacturing Systems	3
		16

SECOND YEAR – FALL SEMESTER

COURSE		CREDITS
ELT 151	Applied Solid State Circuits	4
ELT 214	A+ Preparation IT Technician	3
ELT 236	Introduction to Fiber Optics	3
ELT 270	Introduction to Smart Grid	3
ENG 101	English Composition I ¹ OR ENG 113 Professional Technical Writing ¹	3
		16

SECOND YEAR – FALL SEMESTER

COURSE		CREDITS
ELT 210	A+ Preparation Essentials	3
ELT 220	Linear Integrated Circuits	3
ELT 224	Power Distribution and Motors	3
PHY 121	Technical Physics - Mechanical	3
PSC 131	American Government OR HIS 201 United States History I OR HIS 202 United States History II	3
SPE 115	Speech OR SPE 116 Interpersonal Communication 1	3
		18

¹Requires a grade of "C" or higher.

2 + 2 WITH SIUC

Students desiring to complete a Bachelor of Science degree may do so through the Capstone option through Southern Illinois University at Carbondale. By using Capstone it is possible to complete the bachelors degree in two years. 2+2 agreements exist with the Advanced Technical Studies program and the Industrial Technology program. Students desiring to complete a four-year degree should make their advisor aware as soon as possible.

CERTIFICATE OF ACHIEVEMENT

Students desiring short-term training may complete various one-year certificate programs. Certificate programs are available in areas such as Industrial Electronics and Programmable Logic Controllers.



JOHN A. LOGAN COLLEGE

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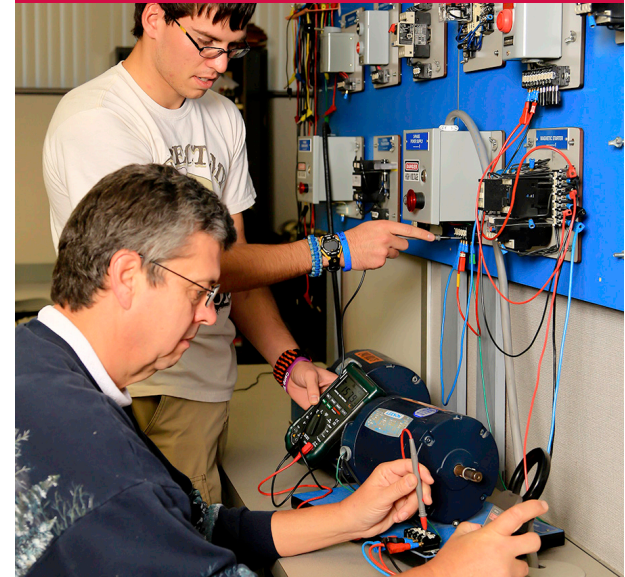
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John A. Logan College does not discriminate on the basis of race, religion, color, national origin, disability, age, gender orientation.



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