

ELECTRONIC ENGINEERING TECHNOLOGY

The electrical engineering program provides students with a solid foundation in studies that include circuits, analog and digital electronics, microprocessors, physics, and calculus. The degree course materials emphasize basic knowledge and skills. Hands-on experiences are integrated into the program through labs. The graduate of the program will be qualified for an entry level position in any electrical engineering technician position. Employment opportunities include areas of design, building, installing, and test of electrical systems. Students who wish to continue their education will be eligible for articulated programs with the SIUC College of Engineering and Technology, the College of Educations, and with some programs at Southeast Missouri State University and Murray State University.

CAREER OPPORTUNITIES

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

- **Product Development and Support Technician**
- **Field Engineering/Service Technician**
- **Test Engineering Technician**
- **Technical Documentation**
- **Technical Sales/Marketing**
- **Telecommunications and Wireless Systems Development and Support**
- **Research and Development**
- **Quality Assurance**
- **Technical Documentation**

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 111 Pre-Calculus	5
MFT 103 Industrial Robots and PLCs	<u>3</u>
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FIRST YEAR – SPRING SEMESTER

COURSE	CREDITS
ELT 103 Applied DC/AC Circuits	4
ELT 150 Applied Solid State Electronics	4
ENG 101 English Composition I ¹ OR ENG 113 Professional Technical Writing ¹	3
PHY 155 College Physics I	<u>5</u>
	16

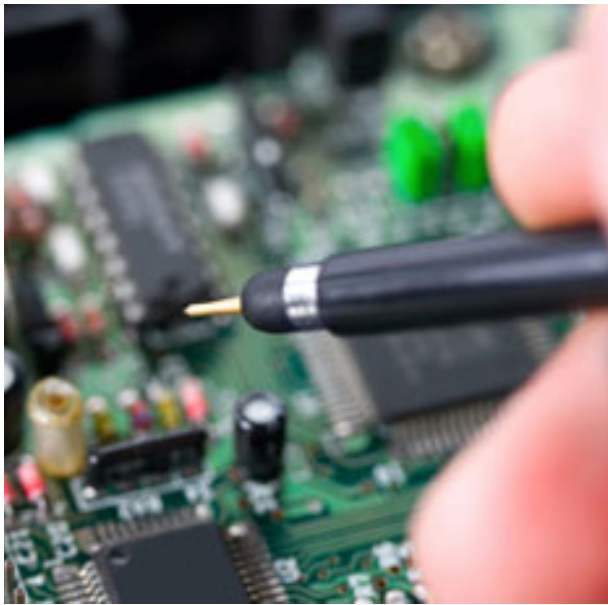
SECOND YEAR – FALL SEMESTER

COURSE	CREDITS
BUS 138 Employment Strategy	1
CPS 176 Introduction to Computer Programming	4
ELT 151 Applied Solid State Circuits	4
ELT 270 Introduction to Smart Grid	3
MAT 131 Calculus I	<u>5</u>
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SECOND YEAR – FALL SEMESTER

COURSE	CREDITS
ELT 200 Introduction to Microprocessors	3
ELT 220 Linear Integrated Circuits	3
ELT 224 Power Distribution and Motors	3
ENG 102 English Composition II ¹	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	<u>3</u>
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* Completion of MAT 201 is recommended prior to transfer to SIU-C. 1 Requires 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 Electrical Systems 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 Programmable Logic Controllers.



JOHN A. LOGAN COLLEGE

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