



Associate in Applied Science

Toward a Degree in Electrical Engineering Technology

Career Curriculum ELT3012
Minimum Hours: 69
Major Code: 1.2 150303Y
Effective Date: Fall 2018

FIRST YEAR – FALL SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|-------------------------------------------------------------------------------------------------|------|-------|
| ELT | 102 | Basic Electricity and Wiring | 4 | _____ |
| ELT | 111 | Digital Electronics I | 3 | _____ |
| ENG | 101 | English Composition 1 ¹ OR ENG 113 Professional Technical Writing ¹ | 3 | _____ |
| MAT | 111 | Pre-Calculus | 5 | _____ |
| MFT | 103 | Industrial Robots and PLCs | 3 | _____ |
| | | | 18 | |

NOTES AND INFORMATION

*Completion of MAT 201 is recommended prior to transfer to SIU-C.

¹ Requires a grade of "C" or higher.

Fall only courses: Spring only courses:

| | |
|---------|---------|
| ELT 102 | ELT 103 |
| ELT 111 | ELT 150 |
| ELT 151 | ELT 112 |
| ELT 214 | ELT 218 |
| MFT 103 | |
| CPS 206 | |

FIRST YEAR – SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|--------------------------------------|------|-------|
| ELT | 103 | Applied DC/AC Circuits | 4 | _____ |
| ELT | 112 | Digital Electronics II | 3 | _____ |
| ELT | 150 | Applied Solid State Electronics | 3 | _____ |
| ELT | 218 | Introduction to Network Technologies | 3 | _____ |
| MAT | 131 | Calculus I | 5 | _____ |
| | | | 18 | |

The Electrical Engineering Technology AAS Degree (ELT 3012) is an ICCB approved extension of the Electronics Technology AAS Degree (00ELT3010).

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

SECOND YEAR – FALL SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|--------------------------------------------------------------------------|------|-------|
| CPS | 176 | Introduction to Computer Programming OR CPS 206 Computer Science I | 4 | _____ |
| ELT | 151 | Applied Solid State Electronics | 3 | _____ |
| ELT | 214 | A+ Preparation IT Technician | 3 | _____ |
| PHY | 155 | College Physics I | 5 | _____ |
| | | | 15 | |

Career Opportunities: The graduate in Electronics Engineering Technology will be prepared for entry-level careers in 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.

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.

SECOND YEAR – SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|--------------------------------------------------------------------------------------------------|------|-------|
| 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 OR BUS 235 Business Communication | 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 | 3 | _____ |
| | | | 18 | |