

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

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.

For more information,
call one of the following toll-free numbers:

| | |
|------------------------------|------------------------------|
| Carbondale | 549-7335 |
| Carterville | 985-3741 |
| Crab Orchard | 1-800-851-4720 |
| DeSoto | 549-7335 |
| Du Quoin | 542-8612, 542-9210, 542-8612 |
| Gorham | 1-800-851-4720 |
| Herrin | 985-3741 |
| Johnston City | 985-3741 |
| Marion | 985-3741 |
| Murphysboro | 549-7335 |
| Trico Area | 1-800-851-4720 |
| West Frankfort | 937-3438, 932-6639 |
| TTY (Hearing Impaired) | 985-2752 |

John A. Logan College website
www.jalc.edu



John A. Logan College
Carterville, Illinois 62918

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

Electronics Technology Programs



John A. Logan College
Carterville, Illinois

ELECTRONICS TECHNOLOGY

Associate in Applied Science

FIRST YEAR - Fall Semester

| Course | | Credits |
|---------|----------------------------|----------------|
| ELT 100 | DC/AC Fundamentals | 8 |
| MAT 106 | Technical Mathematics | 4 |
| MFT 103 | Industrial Robots and PLCs | <u>3</u> 15 |

FIRST YEAR - Spring Semester

| Course | | Credits |
|---------|----------------------|----------------|
| ELT 110 | Solid State Circuits | 8 |
| ELT 111 | Digital Electronics | 6 |
| PHY 121 | Technical Physics | <u>3</u> 17 |

SECOND YEAR - Fall Semester

| Course | | Credits |
|---------|---|----------------|
| ELT 220 | Industrial Electronics | 8 |
| CIS 102 | Progammig | 3 |
| ELT 236 | Intro to Fiber Optics | 3 |
| ENG 101 | English Composition ¹ | <u>3</u> 17 |
| | OR ENG 113 | |
| | Professional Technical Writing ¹ | |

¹Requires a grade of "C" or higher.

SECOND YEAR - Spring Semester

| Course | | Credits |
|---------|--|----------------|
| ELT 200 | Intro to Microprocessors | 5 |
| ELT 224 | Power Distribution | 3 |
| MFT 201 | PLC Manufacturing Systems | 3 |
| PSC 131 | American Government OR HIS 201 U. S. History I OR HIS 202 U. S. History II | 3 |
| SPE 115 | Speech | <u>3</u> 17 |

SERVICE COURSE

ELT 240 FCC General Class License Preparation

This course is designed to help prepare the student to take the General Radio Telephone Operator's exam.

ELECTRICAL ENGINEERING TECHNOLOGY

Associate in Applied Science

FIRST YEAR - Fall Semester

| Course | | Credits |
|---------|-------------------------------------|----------------|
| ELT 100 | DC/AC Fundamentals | 8 |
| MFT 103 | Industrial Robots and PLCs | 3 |
| ENG 101 | English Composition I ¹² | 3 |
| MAT 111 | Pre-Calculus | <u>5</u> 19 |

FIRST YEAR - Spring Semester

| Course | | Credits |
|---------|-------------------------|----------------|
| ELT 110 | Solid State Circuits | 8 |
| ELT 111 | Digital Electronics | 6 |
| PHY 153 | Physics for Electronics | <u>4</u> 18 |

SECOND YEAR - Fall Semester

| Course | | Credits |
|---------|---|----------------|
| ELT 220 | Industrial Electronics | 8 |
| MAT 131 | Calculus I | 5 |
| CPS 203 | Introduction to Fortran OR Introduction to Scientific Programming | <u>3</u> 16 |

SECOND YEAR - Spring Semester

| Course | | Credits |
|---------|---|----------------|
| ELT 200 | Introduction to Microprocessors | 5 |
| PSC 131 | American Government OR HIS 201 United States History I OR HIS 202 United States History II | 3 |
| ELT 224 | Power Distribution and Motors | 3 |
| ENG 113 | Professional Technical Writing ² | 3 |
| SPE 115 | Speech | <u>3</u> 17 |

¹Requires a grade of "C" or higher.

²Completion of MAT 201 and ENG 102 is recommended prior to transfer to SIU-C.

²ENG 101 and 113 both transfer as the same course.

COMPUTER SUPPORT AND NETWORKING

(Electronic Systems Technology Capstone Option) Associate in Applied Science

FIRST YEAR - Fall Semester

| Course | | Credits |
|---------|--|----------------|
| ELT 100 | DC/AC Fundamentals | 8 |
| CIS 120 | Database Management | 3 |
| MAT 108 | College Algebra | 3 |
| ELT 214 | A+ Preparation Operating Systems Core | <u>3</u> 17 |

FIRST YEAR - Spring Semester

| Course | | Credits |
|---------|---|----------------|
| ELT 110 | Solid State Circuits | 8 |
| ELT 210 | A+ Preparation Hardware Core | 3 |
| CIS 102 | Programming OR CPS 176 Introduction to Computer Programming | 3 |
| CIS 200 | Network Essentials | <u>3</u> 17 |

SECOND YEAR - Fall Semester

| Course | | Credits |
|---------|------------------------------------|----------------|
| ELT 200 | Intro to Microprocessors | 5 |
| SPE 115 | Speech | 3 |
| ELT 236 | Intro to Fiber Optics | 3 |
| CIS 206 | Managing Network Environments I | 3 |
| CIS 103 | Network Administration | <u>3</u> 17 |

SECOND YEAR - Spring Semester

| Course | | Credits |
|---------|-------------------------------------|----------------|
| BUS 138 | Employment Strategy | 1 |
| ENG 101 | English Composition I ¹ | 3 |
| PHY 121 | Technical Physics | 3 |
| CIS 208 | Information Systems Security | 3 |
| CIS 218 | Managing Network Environments II | 3 |
| PSY 132 | General Psychology | <u>3</u> 16 |

¹Requires a grade of "C" or higher.