

## Electronic Systems Technology

Associate in Applied Science  
66 Semester Hours

### General Education Requirements

|       |     |                                    |          |
|-------|-----|------------------------------------|----------|
| COMM  | 101 | Intro to Oral Communication        | 3 hrs.   |
| ENGL  | 101 | Composition I                      | 3        |
| MATH  | 109 | College Algebra                    | 4        |
| Or    |     |                                    |          |
| TMAT  | 103 | Technical Mathematics I*           | 4        |
| MATH  | 128 | Trigonometry                       | 3        |
| Or    |     |                                    |          |
| TMAT  | 105 | Technical Mathematics II*          | 4        |
|       |     | Physical Science                   | 4        |
|       |     | Social Science/Humanities Elective | <u>3</u> |
| TOTAL |     |                                    | 20       |

### Technical Core Requirements

|       |     |                                  |          |
|-------|-----|----------------------------------|----------|
| CAD   | 101 | Intro to AutoCAD                 | 3        |
| CSCI  | 101 | Intro to Computer & Info Science | 4        |
| MAIN  | 101 | Industrial Electricity & Systems | 3        |
| MFTG  | 110 | Manufacturing Processes          | 3        |
| TECH  | 114 | Intro to Technical Graphics      | <u>3</u> |
| TOTAL |     |                                  | 16       |

### Electronics Core Requirements

|       |     |                         |          |
|-------|-----|-------------------------|----------|
| ELTC  | 102 | DC Electronics          | 3        |
| ELTC  | 103 | AC Electronics          | 3        |
| ELTC  | 206 | Digital Electronics     | 3        |
| ELTC  | 207 | Solid State Electronics | 3        |
| ELTC  | 220 | Data Communications     | <u>3</u> |
| TOTAL |     |                         | 15       |

### Automation and Controls Option

|       |     |                                    |          |
|-------|-----|------------------------------------|----------|
| ELTC  | 212 | Automation and Control Electronics | 3        |
| MAIN  | 202 | Hydraulic & Pneumatic Maintenance  | 3        |
| MAIN  | 222 | Industrial Controllers             | 3        |
| NETW  | 208 | Data and Cabling Systems           | 3        |
|       |     | Elective**                         | <u>3</u> |
| TOTAL |     |                                    | 15       |

### Computer Electronics Option

|       |     |                                  |          |
|-------|-----|----------------------------------|----------|
| NETW  | 150 | Workstation Operating Systems    | 3        |
| NETW  | 151 | PC Hardware Maintenance & Repair | 3        |
| NETW  | 160 | Introduction to Networking       | 3        |
| NETW  | 208 | Data and Cabling Systems         | 3        |
|       |     | Elective**                       | <u>3</u> |
| TOTAL |     |                                  | 15       |

\* Students who take TMAT 103/105 should also take TPHY 103.

\*\* Electives as approved by advisor or department

### Career Opportunities

Electronics Technology is a growing field with employment opportunities continuing to grow, especially in niche markets like computers and communications. The electronics field is dynamic and is changing in many fields such as automotive, military, computers, hospital and medical equipment, industry, household appliances, building maintenance, security and surveillance, communications and customer service.

With employment opportunities in these and other areas, and the ever-increasing use and applications of electronics, the employment outlook for individuals with an AAS degree in electronics technology is optimistic. Therefore, rather than a narrow, specific focus, the curriculum is designed to prepare technicians with a solid core of knowledge and skills that can be transferred to positions in industry, business, health care, communications, utilities, government and other sectors.

Upon completion of the program, students will be able to seek entry-level employment with manufacturers to produce products or maintain production lines, with computer service departments (within organizations), and with consumer electronics retail stores. Electronics technicians use engineers' plans to design and develop electronic equipment and machinery. They may work on radios, televisions, machine controls, computers, robots, radar or sonar. Some electronics technicians help in the development of electronic products; other technicians are responsible for repairing and servicing defective equipment.

### Earning Power

In Illinois, the average salary for electronics technicians is about \$38,400/year.

Experienced technicians may advance to supervisory positions. Those with additional training and exceptional abilities may be promoted to professional positions.

*This flyer is for information purposes only. Revisions may occur from time to time to ensure curricula reflect technological advances in the field.*



