

# COMMUNICATIONS TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE



College(s): DA

Program Code: 0750

The Associate in Applied Science degree program in Communications Technology is a cooperative effort between Richard J. Daley College and the Electrical Joint Apprenticeship and Training Trust (EJATT) which is made up of the National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) Local Union 134. Through the joint effort of the college and EJATT, the program is dedicated to consistently provide state-of-the art education and training to apprentices, and through them to the residential and commercial building contractors in the Chicagoland area. This commitment to both the individual and industry requires not only providing electricians for today's market, but also for tomorrow's market and future technologies.

*This selective admissions program requires students to submit a separate application or to take additional action before enrolling.*

## Program Requirements

Code	Title	Hours
<b>General Education Coursework</b> <sup>1</sup>		
ENGLISH 101	Composition	3
432IBEW 714	Technical Math I	3
Any Psychology, History, or related course		9
<b>Required Program Core</b>		
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 709	Print Reading II	3
432IBEW 711	Communications	4
432IBEW 715	Technical Math II	3

432IBEW 716	Electronics	4.5
432IBEW 717	Structured Wiring	4.5
432IBEW 718	Integrated Systems I	3.5
432IBEW 719	Integrated Systems II	4.5
432IBEW 720	Communication Systems Verification	3.5
432IBEW 721	Fiber Optics	3.5
432IBEW 722	Computer Networking	4.5
432IBEW 726	Low Voltage Systems Communications	3.5
<b>Total Hours</b>		<b>65</b>

<sup>1</sup> At least one course must meet the Human Diversity (HD) requirement.

## Pathway

This is an **example course sequence** for students interested in pursuing Communications Technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC), Advanced Certificate (AC), and Associate in Applied Science (AAS) degree in Communications Technology.

<b>Semester-by-Semester Program Plan for Full-Time Students</b>		
<b>Semester 1</b>		<b>Hours</b>
432IBEW 704	Construction Technology	4.5
432IBEW 705	Print Reading I	3.5
432IBEW 714	Technical Math I	3
432IBEW 716	Electronics	4.5
432IBEW 717	Structured Wiring	4.5
<b>Hours</b>		<b>20</b>
<b>Semester 2</b>		
432IBEW 718	Integrated Systems I	3.5
432IBEW 726	Low Voltage Systems Communications	3.5

432IBEW 721	Fiber Optics	3.5
432IBEW 715	Technical Math II	3
432IBEW 709	Print Reading II	3
<b>Hours</b>		<b>16.5</b>
<b>Semester 3</b>		
432IBEW 719	Integrated Systems II	4.5
432IBEW 711	Communications	4
432IBEW 720	Communication Systems Verification	3.5
432IBEW 722	Computer Networking	4.5
<b>Hours</b>		<b>16.5</b>
<b>Semester 4</b>		
ENGLISH 101	Composition <sup>1</sup>	3
Any Psychology, History, or related course <sup>1,2</sup>		9
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>65</b>

<sup>1</sup> General Education Requirement

<sup>2</sup> At least one course must be HD

Choose your courses with your College Advisor.

## Applicant requirements:

- Graduates of an accredited high school or have acceptable scores on the General Education Development (GED) test. Foreign and domestic high school education or domestic GED must be validated by official transcripts. Official transcripts will be accepted in place of the high school diploma if the graduation date is provided.
- At least 18 years old prior to application.
- Have taken two semesters of high school or college algebra and earned a minimum C grade in each semester prior to application. An official transcript is required.
- Be physically able, as determined by a physician, to safely perform the tasks of a construction electrician. A drug test is required.
- Have evidence of a qualifying grade on an aptitude test prescribed by the EJATT Local Union 134. The aptitude test covers English and Mathematics comprehension, along with a spatial ability evaluation.

## Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (<https://www.ccc.edu/departments/Pages/Career-Services.aspx>).

## Electricians

### Job Description

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

## Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

### Annual Wages

Entry-Level 10 <sup>th</sup> Percentile	\$45,836
Median 50 <sup>th</sup> Percentile	\$90,617
Senior-Level 90 <sup>th</sup> Percentile	\$121,691

### Hourly Wages

Entry-Level 10 <sup>th</sup> Percentile	\$22
Median 50 <sup>th</sup> Percentile	\$44
Senior-Level 90 <sup>th</sup> Percentile	\$59

## Annual Job Openings

868 annual openings in Cook County

## National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	32.89%
A certificate	61.71%
Some college	2.31%
An Associate degree	1.79%
A Bachelor's degree	0.00%
A Master's or Professional degree	1.31%
A Doctoral degree or more	0.00%

1.31% continue their education beyond an associate degree

## Security and Fire Alarm Systems Installers

### Job Description

Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.

## Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10 <sup>th</sup> Percentile	\$44,067
Median 50 <sup>th</sup> Percentile	\$63,819
Senior-Level 90 <sup>th</sup> Percentile	\$90,735

Hourly Wages

Entry-Level 10 <sup>th</sup> Percentile	\$21
Median 50 <sup>th</sup> Percentile	\$31
Senior-Level 90 <sup>th</sup> Percentile	\$44

Annual Job Openings

133 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	41.41%
A certificate	48.58%
Some college	8.41%
An Associate degree	1.60%
A Bachelor's degree	0.00%
A Master's or Professional degree	0.00%
A Doctoral degree or more	0.00%

0.00% continue their education beyond an associate degree